

Antisera of Yanaihara Institute Inc.

Antisera of Yanaihara Institute Inc. 250

Manufacturer:

YANAIHARA INSTITUTE INC.

2480-1 AWAKURA, FUJINOMIYA-SHI
SHIZUOKA, 418-0011
JAPAN

PHONE: +81-(0)544-22-2771
FAX: +81-(0)544-22-2770
E-mail: ask@yanaihara.co.jp

Distributor:

PEPTIDE INSTITUTE, INC.

4-1-2 INA, MINOH-SHI
OSAKA, 562-8686
JAPAN

PHONE: +81-(0)72-729-4121
FAX: +81-(0)72-729-4124
E-mail: info@peptide.co.jp

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Code	Product	Assay Range	Price:Yen
YK010	C-Peptide (Rat)-EIA Kit	1.56 - 50 ng/ml	76,000
YK011	C-Peptide I (Mouse)-EIA Kit	0.617 - 50 ng/ml	76,000
YK012	C-Peptide II (Mouse)-EIA Kit	0.412 - 100 ng/ml	76,000
YK050	Leptin (Rat)-ELISA Kit	80 - 20,000 pg/ml	60,000
YK051	Leptin-HS (Rat)-ELISA Kit	78.1 - 2500 pg/ml	60,000
YK060	Insulin-ELISA Kit	0.137 - 100 ng/ml	50,000
YK070	Chromogranin A (Human)-EIA Kit	0.1 - 10 pmol/ml	76,000
YK080	Peptide YY (Human)-EIA Kit	10 - 10,000 pg/ml	76,000
YK081	Peptide YY (Rat)-EIA Kit	50 - 10,000 pg/ml	76,000
YK090	Glucagon (Human, Rat, Mouse)-EIA Kit	50 - 10,000 pg/ml	76,000
YK100	NO Synthase I (Human, Rat)-EIA Kit	0.98 - 1000 ng/ml	76,000
YK111	Glicentin (Rat)-EIA Kit	206 - 50,000 fmol/ml	76,000
YK130	CRF (Human, Rat)-ELISA Kit	0.313 - 20 ng/ml	76,000
YK140	GLP-2 (Rat)-EIA Kit	0.137 - 100 ng/ml	76,000
YK141	GLP-2 (Human)-EIA Kit	0.137 - 100 ng/ml	76,000
YK142	GLP-2 (Mouse)-EIA Kit	0.412 - 100 ng/ml	76,000
YK150	S-100 β (Human)-ELISA Kit	98 - 63,000 pg/ml	76,000
YK160	GLP-1 (Human, Rat, Mouse)-EIA Kit	206 - 50,000 pg/ml	76,000
YK190	Urocortin 2 (Mouse)-EIA Kit	0.82 - 200 ng/ml	76,000
YK200	Urocortin 3 (Mouse, Rat)-EIA Kit	0.41 - 100 ng/ml	76,000

Rat C-peptide EIA Kit (YK010)

C-ペプチドは、インスリンの前駆体であるプロインスリンのプロセッシングにより、インスリンとほぼ等モル比で血中に放出されます。従って、C-ペプチドの血中濃度は膵B細胞からのインスリン分泌をよく反映しているとされています。また、インスリン投与中においても、血中インスリン濃度に影響されることなくB細胞からのC-ペプチドの分泌を測定できますので、膵B細胞機能検査としては血中C-ペプチドの測定がインスリン測定よりむしろ優れているという利点があります。人では、既に糖尿病を対象とする臨床検査試薬としてC-ペプチドのRIA系は、インスリン測定とともに高い評価を受けています。

31アミノ酸残基からなるラットC-ペプチドには、I型とII型の2種類が存在しますが、それらは8位と17位のアミノ酸残基のみが置換されており、両者の18位からC-末端までのアミノ酸配列は一致しています。

こうした背景に基づき、矢内原研究所では、ラットC-ペプチドC-末端部を認識するポリクローナル抗体を用い、安定で高感度のラットC-ペプチド特異的EIA系を確立するに至りました。本EIA系はラット膵B細胞機能検査試薬として初めて市販されるものであります。

本EIA系では、標準抗原としてラットC-ペプチド-I、標識抗原としてピオチン化ラットC-ペプチド-Iを用い、ラットの血漿および尿中のC-ペプチドの測定に使用できます。添加回収試験(102.2-106.9%)、同時再現性及び日差再現性はそれぞれCV : 3.38-8.83及び5.56-8.41であり、共に満足すべき結果を得ています。

<文献>

- 1) B. Gonen *et al.*, In "*Proinsulin, Insulin, C-Peptide*" (Eds. S. Baba, T. Kaneko, and N. Yanaihara) Excerpta Medica, Amsterdam, pp 246 (1979).
- 2) H. Yasuda *et al.*, *Endocrinol. Jpn.*, **23**, 271 (1976).
- 3) J. Markussen and F. Sundby, *Eur. J. Biochem.*, **25**, 153 (1972).
- 4) H.S. Tager and D.F. Steiner, *J. Biol. Chem.*, **247**, 7936 (1972).
- 5) C. Yanaihara *et al.*, In "*Proinsulin, Insulin, C-Peptide*" (Eds. S. Baba, T. Kaneko, and N. Yanaihara) Excerpta Medica, Amsterdam, pp 87 (1979).

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen												
Y010 -20°C	Anti VIP (Human, Porcine) Serum Immunogen: Synthetic VIP (Human, Porcine), carrier free For RIA: 1: 1,000-3,000 (final dilution ~1: 21,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: VIP (Human, Porcine) 100% Secretin (Porcine) 0% GIP (1-30) (Human) 0% PACAP38 (Human) <0.001%	Rabbit	50 µl	35,000												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">VIP (1-15) (Human, Porcine) 0%</td> <td style="width: 50%;">GLP-1 (7-37) 0%</td> </tr> <tr> <td>Secretin (Porcine) 0%</td> <td>PACAP27 (Human) 0%</td> </tr> <tr> <td>GIP (1-30) (Human) 0%</td> <td>GRF (Human) 0%</td> </tr> </table>		VIP (1-15) (Human, Porcine) 0%	GLP-1 (7-37) 0%	Secretin (Porcine) 0%	PACAP27 (Human) 0%	GIP (1-30) (Human) 0%	GRF (Human) 0%									
VIP (1-15) (Human, Porcine) 0%	GLP-1 (7-37) 0%															
Secretin (Porcine) 0%	PACAP27 (Human) 0%															
GIP (1-30) (Human) 0%	GRF (Human) 0%															
Y020 -20°C	Anti PHI (Human) Serum Immunogen: Synthetic PHI (Human), carrier free For RIA: 1: 1,000-5,000 (final dilution ~1: 35,000) For Immunohistochemistry: 1: 500-2,000 Specificity: PHI (Human) 100% PHI (13-27) (Human) 30% Glucagon 0% VIP (Porcine) 0%	Rabbit	50 µl	35,000												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PHI (Porcine) 0.14%</td> <td style="width: 50%;">PHI (20-27) (Porcine) 0%</td> </tr> <tr> <td>PHI (13-27) (Human) 30%</td> <td>Secretin (Porcine) 0%</td> </tr> <tr> <td>Glucagon 0%</td> <td>GRF (Human) 0%</td> </tr> <tr> <td>VIP (Porcine) 0%</td> <td></td> </tr> </table>		PHI (Porcine) 0.14%	PHI (20-27) (Porcine) 0%	PHI (13-27) (Human) 30%	Secretin (Porcine) 0%	Glucagon 0%	GRF (Human) 0%	VIP (Porcine) 0%								
PHI (Porcine) 0.14%	PHI (20-27) (Porcine) 0%															
PHI (13-27) (Human) 30%	Secretin (Porcine) 0%															
Glucagon 0%	GRF (Human) 0%															
VIP (Porcine) 0%																
Y021 -20°C	Anti PHI (13-27) (Human) Serum Immunogen: Synthetic PHI (13-27) (Human)- <i>Ascaris suilla</i> protein For RIA: 1: 2,000-10,000 (final dilution ~1: 70,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: PHI (Human) 100% PHI (1-15) (Human) 0% PHI (1-15) (Porcine) 0% PHI (20-27) (Porcine) 0% Secretin (Porcine) 0% GRF (Human) 0%	Rabbit	50 µl	35,000												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PHI (Porcine) 0.08%</td> <td style="width: 50%;">PHI (13-27) (Human) 100%</td> </tr> <tr> <td>PHI (1-15) (Human) 0%</td> <td>PHI (14-27) (Porcine) 0%</td> </tr> <tr> <td>PHI (1-15) (Porcine) 0%</td> <td>Glucagon 0%</td> </tr> <tr> <td>PHI (20-27) (Porcine) 0%</td> <td>VIP (Porcine) 0%</td> </tr> <tr> <td>Secretin (Porcine) 0%</td> <td></td> </tr> <tr> <td>GRF (Human) 0%</td> <td></td> </tr> </table>		PHI (Porcine) 0.08%	PHI (13-27) (Human) 100%	PHI (1-15) (Human) 0%	PHI (14-27) (Porcine) 0%	PHI (1-15) (Porcine) 0%	Glucagon 0%	PHI (20-27) (Porcine) 0%	VIP (Porcine) 0%	Secretin (Porcine) 0%		GRF (Human) 0%				
PHI (Porcine) 0.08%	PHI (13-27) (Human) 100%															
PHI (1-15) (Human) 0%	PHI (14-27) (Porcine) 0%															
PHI (1-15) (Porcine) 0%	Glucagon 0%															
PHI (20-27) (Porcine) 0%	VIP (Porcine) 0%															
Secretin (Porcine) 0%																
GRF (Human) 0%																
Y022 -20°C	Anti PHI (Rat) Serum Immunogen: Synthetic PHI (Rat), carrier free For RIA: 1: 2,000-5,000 (final dilution ~1: 35,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: PHI (Rat) 100% PHI (Porcine) 75% VIP (Porcine) 0%	Rabbit	50 µl	35,000												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PHI (Human) 80%</td> <td style="width: 50%;">Secretin (Porcine) 0%</td> </tr> <tr> <td>PHI (Porcine) 75%</td> <td>PACAP38 (Human) 0%</td> </tr> <tr> <td>VIP (Porcine) 0%</td> <td></td> </tr> </table>		PHI (Human) 80%	Secretin (Porcine) 0%	PHI (Porcine) 75%	PACAP38 (Human) 0%	VIP (Porcine) 0%										
PHI (Human) 80%	Secretin (Porcine) 0%															
PHI (Porcine) 75%	PACAP38 (Human) 0%															
VIP (Porcine) 0%																
Y030 -20°C	Anti Secretin (Human) Serum Immunogen: Synthetic Secretin (Human), carrier free For RIA: 1: 500-2,000 (final dilution ~1: 14,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: Secretin (Human) 100% Secretin (Chicken) <0.01%	Rabbit	50 µl	35,000												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Secretin (Porcine) 92%</td> <td style="width: 50%;">VIP (Porcine) <0.01%</td> </tr> </table>		Secretin (Porcine) 92%	VIP (Porcine) <0.01%													
Secretin (Porcine) 92%	VIP (Porcine) <0.01%															
Y031 -20°C	Anti Secretin (Porcine) Serum Immunogen: Synthetic Secretin (Porcine), carrier free For RIA: 1: 2,000-13,500 (final dilution ~1: 54,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: Secretin (Porcine) 100% Secretin (14-27) (Porcine) 10% VIP (Porcine) 0% Glucagon 0%	Rabbit	50 µl	35,000												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Secretin (4-27) (Porcine) 60%</td> <td style="width: 50%;">Secretin (18-27) (Porcine) <0.01%</td> </tr> <tr> <td>Secretin (14-27) (Porcine) 10%</td> <td>Gastrin (Human) 0%</td> </tr> <tr> <td>VIP (Porcine) 0%</td> <td></td> </tr> <tr> <td>Glucagon 0%</td> <td></td> </tr> </table>		Secretin (4-27) (Porcine) 60%	Secretin (18-27) (Porcine) <0.01%	Secretin (14-27) (Porcine) 10%	Gastrin (Human) 0%	VIP (Porcine) 0%		Glucagon 0%								
Secretin (4-27) (Porcine) 60%	Secretin (18-27) (Porcine) <0.01%															
Secretin (14-27) (Porcine) 10%	Gastrin (Human) 0%															
VIP (Porcine) 0%																
Glucagon 0%																

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y032 -20°C	Anti Secretin (Rat) Serum Immunogen: Synthetic Secretin (Rat), carrier free For RIA: 1: 2,000-8,000 (final dilution ~1: 56,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: Secretin (Rat) 100% Secretin (13-27) (Rat) 90% Secretin (19-27) (Rat) <0.1% Secretin (1-12) (Rat) 0% Prosecretin (1-41) (Rat) <0.1% Prosecretin (12-41) (Rat) <0.1% GIP(1-30)-NH ₂ (Porcine) 0% GLP-1 (7-36)-NH ₂ 0% Glucagon 0% PHI (Rat) 0% PACAP38 (Human) 0% VIP (Porcine) 0%	Rabbit	50 µl	35,000
Y040 -20°C	Anti PACAP38 (Human) Serum Immunogen: Synthetic PACAP38 (Human), carrier free For RIA: 1: 1,000-2,000 (final dilution ~1: 14,000) For Immunohistochemistry: 1: 200-1,000 Specificity: PACAP38 (Human) 100% PACAP27 (Human) 0% VIP (Porcine) 0% PHI (Rat) 0% PHI (Human) 0% Secretin (Human) 0% Helodermin 0% CCK-8 0% Met-enkephalin 0% Leu-enkephalin 0% Dynorphin 0% Oxytocin 0% Vasopressin 0%	Rabbit	50 µl	35,000
Y041 -20°C	Anti PACAP38 (22-38) (Human) Serum Immunogen: Synthetic PACAP (22-38) (Human)-Porcine Thyroglobulin For RIA: 1: 5,000-20,000 (final dilution ~1: 140,000) For Immunohistochemistry: 1: 500-4,000 Specificity: PACAP38(22-38) (Human) 100% PACAP38 (Human) 30% PACAP38 (5-38) (Human) 30% PACAP38 (10-38) (Human) 17.2% PACAP38 (16-38) (Human) 52% PACAP27 (Human) <0.1% Glucagon 0% VIP (Porcine) 0% PHI (Human) 0% Secretin (Human) 0%	Rabbit	50 µl	35,000
Y042 -20°C	Anti PACAP (1-15) (Human) Serum Immunogen: Synthetic PACAP (1-15) (Human)-Porcine Thyroglobulin For RIA: 1: 5,000-20,000 (final dilution ~1: 140,000) For Immunohistochemistry: 1: 500- 3,000 Specificity: PACAP (1-15) (Human) 100% PACAP27 (Human) 30% PACAP38 (Human) 6.7% VIP (Porcine) 0% PHI (Rat) 0% PHI (Human) 0% Secretin (Human) 0% Helodermin 0%	Rabbit	50 µl	35,000
Y050 -20°C	Anti PACAP27 (Human) Serum Immunogen: Synthetic PACAP27 (Human), carrier free For RIA: 1: 5,000-40,000 (final dilution ~1: 280,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: PACAP27 (Human) 100% PACAP38 (Human) 0% VIP (Porcine) 0% PHI (Rat) 0% PHI (Human) 0% Secretin (Human) 0% Helodermin 0%	Rabbit	50 µl	35,000

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y051 -20°C	<b style="color: #E91E63;">Anti PACAP27 (13-27) (Human) Serum Immunogen: Synthetic PACAP27 (13-27) (Human), carrier free For RIA: 1: 2,000-20,000 (final dilution ~1: 140,000) For Immunohistochemistry: 1: 1,000-6,000 Specificity: PACAP (13-27) (Human) 100% PACAP27 (Human) 149.9% PACAP (8-27) (Human) 112.9% PACAP (16-27) (Human) 54.9% PACAP (22-27) (Human) 3.3% PACAP38 (Human) <0.1% PACAP (1-15) (Human) 0% VIP (Porcine) 0% Glucagon 0% PHI (Human) 0% Secretin (Human) 0% PACAP38 (1-15) (Human) 0%	Rabbit	50 µl	35,000
Y060 -20°C	<b style="color: #E91E63;">Anti NPY (Human, Rat, Mouse) Serum Immunogen: Synthetic NPY (Human, Rat, Mouse), carrier free For RIA: 1: 2,000-5,000 (final dilution ~1: 35,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: NPY (Human, Rat, Mouse) 100% NPY (Porcine)..... 100% NPY (1-19) (Human, Rat, Mouse) ... 0% NPY (20-36) (Human, Rat, Mouse)... 25.6% NPY (26-36) (Human, Rat, Mouse) ... 0% PYY (Porcine) 100% PP (Human) 0% PP (Rat) 0%	Rabbit	50 µl	35,000
Y061 -20°C	<b style="color: #E91E63;">Anti NPY(1-19) (Human, Rat, Mouse) Serum Immunogen: Synthetic NPY (1-19) (Human, Rat, Mouse)-Bovine Serum Albumin For RIA: 1: 1,000 (final dilution ~1: 7,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: NPY (1-19) (Human, Rat, Mouse) ... 100% NPY (Human, Rat, Mouse) 10% NPY (4-19) (Human, Rat, Mouse) ... 100% PYY (Porcine) 0% PP (Human) 0%	Rabbit	50 µl	35,000
Y070 -20°C	<b style="color: #E91E63;">Anti Peptide YY (PYY) (Porcine, Rat) Serum Immunogen: Synthetic PYY (Porcine, Rat), carrier free For RIA: 1: 2,000 (final dilution ~1: 14,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: PYY (Porcine, Rat) 100% PYY (1-19) (Human) 0% PYY (13-36) (Human) 0.5% PYY (19-36) (Porcine, Rat) 0% NPY (Human) 0.7% NPY (1-19) (Human) 0% NPY (20-36) (Human) 0% PP (Human) 0%	Rabbit	50 µl	35,000
Y072 -20°C	<b style="color: #E91E63;">Anti Peptide YY (PYY) (Human) Serum Immunogen: Synthetic PYY (Human), carrier free For RIA: 1: 3,000-10,000 (final dilution ~1: 70,000) For Immunohistochemistry: 1: 1,000-9,000 Specificity: PYY (Human) 100% PYY (19-36) (Human) <0.001% PYY (1-19) (Human) <0.001% PYY (Rat) 80% PYY (13-36) (Rat) <0.1% PP (Human) <0.001% NPY (Human) <0.001%	Rabbit	50 µl	35,000
Y080 -20°C	<b style="color: #E91E63;">Anti Pancreatic polypeptide (PP) (18-36) (Human) Serum Immunogen: Synthetic PP(18-36) (Human)-Porcine Thyroglobulin For RIA: 1 : 1,000-8,000 (final dilution ~1: 56,000) For Immunohistochemistry: 1 : 1,000-4,000 Specificity: PP (18-36) (Human) 100% PP (Human)..... 100% NPY (Human) 0% PYY (Human) 0%	Rabbit	50 µl	35,000

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y090	Anti Pancreastatin (33-51) (Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Pancreastatin (33-51) (Rat)-Porcine Thyroglobulin For RIA: 1: 10,000-200,000 (final dilution ~1: 1,400,000) For Immunohistochemistry: 1: 1000-4000 Specificity: Pancreastatin (33-51) (Rat)..... 100% Pancreastatin (Rat) 100% Chromogranin A (359-389) (Rat) 0%			
Y100	Anti GIP(1-30)-OH (Porcine) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic GIP (1-30)-OH (Porcine), carrier free For RIA: 1 : 2,000 (final dilution ~1: 14,000) For Immunohistochemistry: 1: 1,000-10,000 Specificity: GIP (1-30) (Porcine)..... 100% GIP (Porcine) 0.9% GIP (Human) 0% GIP (1-18) (Porcine) 0% Secretin (Porcine) 0% VIP (Porcine) 0% PHI (Porcine) 0% GLP-1 (7-37) 0%			
Y101	Anti GIP (Human) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic GIP (Human)-Porcine Thyrogloblin For RIA: 1: 3,200 (final dilution ~1: 16,000) For Immunohistochemistry: 1: 500-1,000 Specificity: GIP (Human) 100% GIP (15-30)-NH ₂ (Human) 25% GIP (1-13) (Human) 0% GIP (31-42) (Human) 0.9% GIP (1-30)-NH ₂ (Human) 110% GIP (1-30)-OH (Porcine) 1% GIP (Porcine) 1% VIP (Porcine) 0% PHI (Porcine) 0% GLP-1 (7-36) (Human) 0% GLP-1(7-36)-NH ₂ (Human) 0% Insulin (Human) 0% Glucagon 0% Secretin (Porcine) 0%			
Y110	Anti Gastrin 34 (1-15) (Human) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Gastrin 34 (1-15) (Human)-Bovine Serum Albumin For RIA: 1 : 5,000 (final dilution ~1: 45,000) For Immunohistochemistry: 1 : 500-2,000 Specificity: G34 (1-15) (Human) 100% G34 (Human) 43% G34 (1-5) (Human)..... 30% G34 (6-15) (Human)..... 0%			
Y111	Anti Gastrin 17 (G17) (Dog) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Gastrin 17 (G17) (Dog), carrier free For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 500-2,000 Specificity: G17 (Dog) 100% G17 (Human) 40%			
Y120	Anti Motilin (Dog) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Motilin (Dog), carrier free For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 500-3,000 Specificity: Motilin (Dog) 100% Motilin (Human, Porcine)..... 20.8%			
Y121	Anti Motilin (Human, Porcine) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Motilin(Human, Porcine) carrier free For RIA: 1 : 1000 (final dilutin ~ 1: 7000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: Motilin (Human, Porcine) 100% Motilin (Human, Porcine) (7-22) ... 69.2% Motilin (Human, Porcine) (12-22)..... 115% Motilin (Human, Porcine) (1-6) Me... 0.09% [15-Glutamine]-Motilin 96.7%			









Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y130	Anti Neurotensin Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Neurotensin (Bovine, Rat)-Bovine Serum Albumin For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 1,000 Specificity: Neurotensin 100% Neurotensin (1-9) 21% Neurotensin (1-8) 16% Neurotensin (6-13) <0.01% Neurotensin (9-12) <0.01%			
Y140	Anti Met-Enkephalin-Arg⁶-Gly⁷-Leu⁸ Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Met-Enkephalin-Arg ⁶ -Gly ⁷ -Leu ⁸ - <i>Ascaris suilla</i> protein For RIA: 1: 8,000 (final dilution ~1: 56,000) For Immunohistochemistry: 1: 1,000-5,000 Specificity: Met-Enkephalin-Arg ⁶ -Gly ⁷ -Leu ⁸ 100% Phe ⁴ -Met ⁵ -Arg ⁶ -Gly ⁷ -Leu ⁸ <0.001% α-Endorphin 0% β-Endorphin 0% Met-Enkephalin 0% Leu-Enkephalin 0%			
Y150	Anti Substance P Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Substance P-Bovine Serum Albumin For RIA: 1: 8,500 (final dilution ~1: 60,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: Substance P 100% Substance P (6-10) 20% Substance P (4-10) 0.5% Neurokinin A 1.0%			
Y160	Anti GRP (Porcine) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic GRP (Porcine)-Bovine Serum Albumin For RIA: 1: 40,000 (final dilution ~1: 280,000) For Immunohistochemistry: 1: 1,000-12,000 Specificity: GRP (Porcine) 100% GRP (14-27) (Porcine) 261% GRP (1-13) (Porcine) 0% Bombesin 241% Substance P <0.001%			
Y170	Anti Bombesin Serum	Guinea Pig	50 µl	35,000
-20°C	Immunogen: Synthetic N ^α -Gly-[Gln ¹]-Bombesin-Bovine Serum Albumin For RIA: 1: 1,000 (final dilution ~1: 7,000) For Immunohistochemistry: 1: 200-1,000 Specificity: Bombesin 100% N ^α -Gly-[Gln ¹]-Bombesin 100% Des-14-Amide-Bombesin 25% Bombesin (4-14) 90% Bombesin (6-14) 90% Bombesin (8-14) 0% Ranatensin C 2.6% GRP (Porcine) <0.001% N ^α -Tyr-[Gln ¹]-Bombesin 100%			
Y180	Anti Galanin (Porcine) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Galanin (Porcine), carrier free For RIA: 1: 2,500 (final dilution ~1: 17,500) For Immunohistochemistry: 1: 500-2,000 Specificity: Galanin (Porcine) 100% Galanin (3-29) (Porcine) 100% Galanin (10-29) (Porcine) 100% Galanin (15-29) (Porcine) 100% GRP (Porcine) 0% Neurokinin A 0% Neurokinin B 0% Neuromedin B 0% Substance P 0% PP (Human) 0% Glucagon 0% VIP (Porcine) 0%			

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y182	Anti Galanin (1-15) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Galanin (1-15) (Rat)-Porcine Thyroglobulin For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 500-2,000 Specificity: Galanin (1-15) 100% Galanin (Rat) 100% Galanin (Porcine) 100% Galanin (1-19) (Porcine) 100% Galanin (2-29) (Porcine) 53% Galanin (1-11) <0.01% PP (Human) 0% Gastrin (Human) 0% NPY (Human) 0% PYY (Porcine) 0%			
Y183	Anti Galanin (15-29) (Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Galanin (15-29) (Rat)-Porcine Thyroglobulin For RIA: 1: 3,000 (final dilution ~1: 21,000) For Immunohistochemistry: 1: 200-2,000 Specificity: Galanin (Rat) 100% Galanin (15-29) (Rat) 100% Galanin (Human) 0%			
Y184	Anti Galanin (9-30) (Human) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Galanin (9-30) (Human)-Bovine Serum Albumin For RIA: 1: 3,000 (final dilution ~1: 21,000) For Immunohistochemistry: 1: 500-2000 Specificity: Galanin (Human) 100% Galanin (9-30) (Human) 66.4% Galanin (16-30) (Human) 0% Galanin (Rat) 6.8% Galanin (Porcine) 3.6% Substance P 0% Neurokinin A 0%			
Y185	Anti Preprogalanin (89-124) (Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Preprogalanin(89-124) (Rat), carrier free For RIA: 1: 3,000 (final dilution ~1: 21,000) For Immunohistochemistry: 1: 500-2,000 Specificity: Preprogalanin (Rat) 100% Preprogalanin (Human) 80% Galanin (Rat) 0%			
Y186	Anti Galanin (20-29) (Rat) Serum	Rabbit	50 µl	35,000
-20°C	New Immunogen: Synthetic Galanin (20-29) (Rat)-KLH conjugate For Immunohistochemistry: 1:500-2,000 (frozen or paraffin sections) Specificity: Galanin (Rat) 100% Galanin (20-29) (Rat) 100% Galanin (Human) 0%			
Y190	Anti Preprorenin (21-64) (Human) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Preprorenin (21-64) (Human), carrier free For RIA: 1: 2,000 (final dilution ~1: 14,000) For Immunohistochemistry: 1: 200-1,000 Specificity: Pre-prorenin (21-64) (Human) 100% Other Renin Fragments 0% Recognizes human prorenin.			
Y191	Anti Preprorenin (288-317) (Human) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Preprorenin (288-317) (Human), carrier free For EIA: 1: 1,000 - 5,000 For Immunohistochemistry: 1: 1,000-4,000 (frozen section) Specificity: Preprorenin (288-317) (Human) ... 100% Preprorenin (21-64) (Human) ... <0.043% Preprorenin (337-360) (Human) 0%			

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y223	Anti C-Peptide II (Mouse) Serum	Rabbit	50 µl	35,000
	Immunogen: Synthetic C-peptide II (Mouse)-KLH conjugate			
	For Immunohistochemistry: 1:2,000-10,000 (frozen or paraffin sections)			
	Specificity:			
	C-peptide II (Mouse)	100%	C-peptide I (Mouse)	5.2%
	C-peptide I (Rat)	3.7%	C-peptide II (Rat)	72.3%
	C-peptide (Human)	<1.5%	C-peptide (Dog)	<0.01%
	C-peptide (Porcine)	<0.01%	Glucagon	<0.1%
Y230	Anti EGF (Human) Serum	Rabbit	50 µl	35,000
	Immunogen: Recombinant EGF (Human), carrier free			
	For RIA: 1: 5000- 12,000 (final dilution ~1: 84,000)			
	For Immunohistochemistry: 1: 1,000- 4,000			
	Specificity:			
	EGF (Human)	100%	EGF (Rat)	0.006%
	EGF (Mouse)	0%	TGF-α (Human)	0%
	IGF-1 (Human)	0%	Insulin (Porcine)	0%
	Glucagon	0%	ACTH (Human)	0%
	PHI (Human)	0%		
Y231	Anti EGF (Rat) Serum	Rabbit	50 µl	35,000
	Immunogen: Recombinant EGF (Rat), carrier free			
	For RIA: 1: 5,000-20,000 (final dilution ~1: 140,000)			
	For Immunohistochemistry: 1: 1,000-4,000			
	Specificity:			
	EGF (Rat)	100%	EGF (Human)	0.1%
	EGF (Mouse)	1.5%	TGF-α (Human)	0%
	IGF-1 (Human)	0%	Insulin (Porcine)	0%
	Glucagon	0%		
Y240	Anti TGF-α (Human) Serum	Rabbit	50 µl	35,000
	Immunogen: Recombinant TGF-α (Human), carrier free			
	For RIA: 1: 680 (final dilution ~1: 5,440)			
	For EIA: 1: 2,300			
	For Immunohistochemistry: 1: 200-500			
	Specificity:			
	TGF-α (Human)	100%	EGF (Human)	0%
	EGF (Rat)	0%		
Y241	Anti TGF-β₁ (Human) Serum	Rabbit	50 µl	35,000
	Immunogen: Recombinant TGF-β ₁ (Human)-Bovine Serum Albumin			
	For RIA: 1: 5,000 (final dilution ~1: 35,000)			
	For Immunohistochemistry: 1: 200-1,000			
	Specificity:			
	TGF-β ₁ (Human)	100%	EGF (Human)	0%
	EGF (Rat)	0%		
Y250	Anti Basic-FGF (Human) Serum	Rabbit	50 µl	35,000
	Immunogen: Recombinant Basic FGF (Human)-Bovine Serum Albumin			
	For RIA: 1: 3,500 (final dilution ~1: 17,500)			
	For Immunohistochemistry: 1: 500-2,000 (frozen section)			
	Specificity:			
	Basic-FGF (Human)	100%	Basic-FGF (Bovine)	85%
	TGF-α (Human)	0%	IL-1α (Human)	0%
	IL-1β (Human)	0%	TGF-β ₁ (Human)	0%
Y251	Anti Basic-FGF (1-9) (Human) Serum	Rabbit	50 µl	35,000
	Immunogen: Synthetic Basic FGF (1-9)-Tyr (Human)-Bovine Serum Albumin			
	For RIA: 1: 750 (final dilution ~1: 6,000)			
	For Immunohistochemistry: 1: 200-1,000 (frozen section)			
	Specificity:			
	Recombinant Basic FGF (Human)	100%	Basic FGF(1-9)-Tyr (Human)	100%

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y260 -20°C	Anti Acidic-FGF (1-15) (Bovine) Serum Immunogen: Synthetic Acidic-FGF (1-15) (Bovine)-Porcine Thyroglobulin For RIA: 1: 1,000 (final dilution ~1: 7,000) For Immunohistochemistry: 1: 200-1,000 (frozen section) Specificity: Acidic-FGF(1-15) (Bovine) 100% Recombinant Basic-FGF (Human) ... 0% This Antiserum recognizes Acidic-FGF (Bovine, Rat and Human).	Rabbit	50 µl	35,000
Y280 -20°C	Anti Retinoblastoma (RB) Protein (901-928) (Human) Serum Immunogen: Synthetic RB Protein (901-928) (Human)-Procine Thyroglobulin For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 200-1,000 (frozen section) Specificity: RB-Protein (901-928) 100% This Antiserum recognizes 110kDa protein in rat liver extract by immunoblot analysis.	Rabbit	50 µl	35,000
Y290 -20°C	Anti Chromogranin A (359-389) (Rat) Serum Immunogen: Synthetic Chromogranin A (359-389) (Rat), carrier free For RIA: 1: 2000 (final dilution ~1: 14,000) For Immunohistochemistry: 1: 1,000 Specificity: CgA (359-389) (Rat) 100% Pancreastatin (Rat) 0%	Rabbit	50 µl	35,000
Y291 -20°C	Anti Chromogranin A (94-130) (Rat) Serum Immunogen: Synthetic Chromogranin A (94-130) (Rat), carrier free For RIA: 1 : 1,000 (final dilution ~1: 7,000) For Immunohistochemistry: 1 : 1,000 Specificity: CgA (94-130) (Rat) 100% Pancreastatin (Rat) 0% This Antiserum recognizes CgA (Rat) and β-granin.	Rabbit	50 µl	35,000
Y292 -20°C	Anti Chromogranin A (343-360) (Rat) Serum Immunogen: Synthetic Chromogranin A (343-360) (Rat), carrier free For RIA: 1: 1,000 (final dilution ~1: 7,000) For Immunohistochemistry: 1: 1,000 Specificity: CgA (343-360) (Rat) 100% Pancreastatin (Rat) 0% This Antiserum recognizes CgA(Rat) and β-granin.	Rabbit	50 µl	35,000
Y293 -20°C	Anti Chromogranin A (344-374) (Human) Serum Immunogen: Synthetic Chromogranin A (344-374) (Human), carrier free For RIA: 1: 500-1,200 (final dilution ~1: 3,500-8,400) For EIA: 1: 2,500 For Immunohistochemistry: 1: 1,000 Specificity: CgA (344-374) (Human) 100% CgA (359-389) (Rat) 33.5% CgA (375-389) (Rat) 0% CgA (360-374) (Human) 0%	Rabbit	50 µl	35,000
Y300 -20°C	Anti α-Endorphin Serum Immunogen: Synthetic α-Endorphin-Bovine Serum Albumin For RIA: 1: 2,000 (final dilution ~1: 14,000) For Immunohistochemistry: 1: 200-1,000 (frozen section) Specificity: α-Endorphin 100% β-Endorphin 7% γ-Endorphin 34% Met-Enkephalin 0% Leu-Enkephalin 0%	Rabbit	50 µl	35,000

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y310 -20°C	Anti Pro-LH-RH (1-26) (Human) Serum Immunogen: Synthetic Pro-LH-RH (1-26) (Human), carrier free For RIA: 1: 1,000 (final dilution ~1 : 7,000) For Immunohistochemistry: 1: 500-5,000 (frozen section) Specificity: Pro-LH-RH (1-26) (Human) 100% GAP (1-56) (Human) 0.15% GAP (34-56) (Human) 0% LH-RH 0%	Rabbit	50 µl	35,000
Y311 -20°C	Anti Gonadotropin-Releasing Hormone-Associated Peptide (GAP) (34-56) (Human) Serum Immunogen: Synthetic GAP (34-56) (Human)-Bovine Serum Albumin For RIA: 1: 700 (final dilution ~1: 4,900) For Immunohistochemistry: 1: 500-4,000 (frozen section) Specificity: GAP (34-56) (Human) 100% GAP (1-56) (Human) 100% GAP (15-56) (Human) 100% GAP (25-56) (Human) 100% GAP (41-56) (Human) 0.5% Leumorphin (Human) 0% LH-RH 0% Somatostatin 0%	Rabbit	50 µl	35,000
Y312 -20°C	Anti Gonadotropin-Releasing Hormone-Associated Peptide (GAP) (28-56) (Rat) Serum Immunogen: Synthetic GAP (28-56) (Rat)-Bovine Serum Albumin For RIA: 1: 10,000 (final dilution ~1: 70,000) For Immunohistochemistry: 1: 500-4,000 (frozen section) Specificity: GAP (28-56) (Rat) 100% GAP (34-56) (Rat) 100% GAP (Rat) 100% GAP (25-56) (Human) <0.001% LH-RH 0%	Rabbit	50 µl	35,000
Y320 -20°C	Anti GLP-1 (7-36)-NH₂ (Human) Serum Immunogen: Synthetic GLP-1(7-36)-NH ₂ (Human), carrier free For RIA: 1: 3,000 (final dilution ~1: 21,000) For EIA: 1: 8,000 For Immunohistochemistry: 1: 1,000-4,000 Specificity: GLP-1 (7-36)-NH ₂ (Human) 100% GLP-2 (Rat) <0.1% GLP-2 (Human) <0.1% Glicentin (Human) <0.1% Glucagon <0.1%	Rabbit	50 µl	35,000
Y321 -20°C	Anti GLP-2 (14-33) (Rat) Serum Immunogen: Synthetic GLP-2(14-33) (Rat)-Keyhole Limpet Hemocyanin For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 1,000-5,000 Specificity: GLP-2 (14-33) (Rat) 100% GLP-2 (Rat) 100% GLP-1 (7-36) NH ₂ (Rat) 0% Glucagon 0%	Rabbit	50 µl	35,000
Y322 -20°C	Anti GLP-2 (Rat) Serum Immunogen: Synthetic GLP-2 (Rat)-Keyhole Limpet Hemocyanin For EIA: 1: 3,000-50,000 For Immunohistochemistry: 1: 500-2,000 Specificity: GLP-2 (Rat) 100% GLP-2 (Human) 100% GLP-2 (3-33) (Rat) 90% GLP-2 (14-33) (Rat) 36% GLP-2 (1-18) (Rat) <0.1% GLP-1 (7-36) NH ₂ (Rat) 0% Glucagon 0% Glicentin (Rat) 0%	Rabbit	50 µl	35,000

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen																		
Y323	Anti GLP-2 (Mouse) Serum	Rabbit	50 µl	35,000																		
	Immunogen: Synthetic GLP-2 (Mouse)-KLH conjugate For EIA: 1:10,000-60,000 For Immunohistochemistry: 1:1,000-5,000 (frozen or paraffin sections) Specificity: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">GLP-2 (Mouse)</td> <td style="width: 10%;">100%</td> <td style="width: 10%;">GLP-2 (Rat)</td> <td style="width: 10%;">100%</td> <td style="width: 10%;"></td> </tr> <tr> <td>GLP-2 (14-33) (Rat)</td> <td>117.4%</td> <td>GLP-2 (Human)</td> <td>44.7%</td> <td></td> </tr> <tr> <td>GLP-2 (1-18) (Rat)</td> <td>0%</td> <td>GLP-1 (7-36)-NH2</td> <td>0%</td> <td></td> </tr> <tr> <td>Glucagon</td> <td>0%</td> <td></td> <td></td> <td></td> </tr> </table>	GLP-2 (Mouse)	100%	GLP-2 (Rat)	100%		GLP-2 (14-33) (Rat)	117.4%	GLP-2 (Human)	44.7%		GLP-2 (1-18) (Rat)	0%	GLP-1 (7-36)-NH2	0%		Glucagon	0%				
GLP-2 (Mouse)	100%	GLP-2 (Rat)	100%																			
GLP-2 (14-33) (Rat)	117.4%	GLP-2 (Human)	44.7%																			
GLP-2 (1-18) (Rat)	0%	GLP-1 (7-36)-NH2	0%																			
Glucagon	0%																					
Y324	Anti Glicentin (1-32) (Rat) Serum	Rabbit	50 µl	35,000																		
	Immunogen: Synthetic Glicentin (1-32)-Cys (Rat)-KLH conjugate For EIA: 1:5,000-25,000 For Immunohistochemistry: 1:1,000-5,000 (frozen or paraffin sections) Specificity: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Glicentin (1-32) (Rat)</td> <td style="width: 10%;">100%</td> <td style="width: 10%;">Glicentin (Rat)</td> <td style="width: 10%;">100%</td> <td style="width: 10%;"></td> </tr> <tr> <td>Glicentin (Human)</td> <td>0.2%</td> <td>GLP-1</td> <td><0.1%</td> <td></td> </tr> <tr> <td>GLP-2 (Rat)</td> <td><0.1%</td> <td>Glucagon</td> <td><0.1%</td> <td></td> </tr> </table>	Glicentin (1-32) (Rat)	100%	Glicentin (Rat)	100%		Glicentin (Human)	0.2%	GLP-1	<0.1%		GLP-2 (Rat)	<0.1%	Glucagon	<0.1%							
Glicentin (1-32) (Rat)	100%	Glicentin (Rat)	100%																			
Glicentin (Human)	0.2%	GLP-1	<0.1%																			
GLP-2 (Rat)	<0.1%	Glucagon	<0.1%																			
Y330	Anti Atrial Natriuretic Peptide (ANP) (Rat) Serum	Rabbit	50 µl	35,000																		
	Immunogen: Synthetic ANP (Rat), carrier free For RIA: 1: 6,000 (final dilution ~1: 42,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: ANP (Rat)..... 100% ANP (Human) 80%																					
Y340	Anti Calcitonin Gene-Related Peptide (α-CGRP) (Rat) Serum	Rabbit	50 µl	35,000																		
	Immunogen: Synthetic α-CGRP (Rat), carrier free For RIA: 1: 2,000-6,000 (final dilution ~1: 42,000) For Immunohistochemistry: 1: 1,000-5,000 Specificity: α-CGRP (Rat) 100%																					
Y350	Anti ACTH (Rat) Serum	Rabbit	50 µl	35,000																		
	Immunogen: Synthetic ACTH (Rat), carrier free For Immunohistochemistry: 1: 1,000-4,000 Specificity: ACTH (Rat) 100% ACTH (Human) 80%																					
Y351	Anti ACTH (21-39) (Rat) Serum	Rabbit	50 µl	35,000																		
	Immunogen: Synthetic ACTH (21-39) (Rat)-Keyhole Limpet Hemocyanin For RIA: 1: 1,000 (final dilution ~1: 7,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: ACTH (21-39) (Rat) 100% ACTH (Rat) 100%																					
Y352	Anti ACTH (1-23) (Rat) Serum	Rabbit	50 µl	35,000																		
	Immunogen: Synthetic ACTH (Rat) (1-23)-Keyhole Limpet Hemocyanin For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 200-1,000 Specificity: ACTH (1-23) (Rat)..... 100% ACTH (Rat) 100%																					
Y360	Anti Urocortin (3-40) (Rat) Serum	Rabbit	50 µl	35,000																		
	Immunogen: Synthetic Urocortin (3-40) (Rat), carrier free For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 1,000-5,000 Specificity: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Urocortin (3-40) (Rat)</td> <td style="width: 10%;">100%</td> <td style="width: 10%;">Urocortin (Rat)</td> <td style="width: 10%;">164.7%</td> <td style="width: 10%;"></td> </tr> <tr> <td>CRF (Human, Rat)</td> <td>0%</td> <td>Urotensin I (Carp)</td> <td><0.1%</td> <td></td> </tr> <tr> <td>Urocortin (Human)</td> <td>100%</td> <td>Urocortin (30-40) (Rat)</td> <td>100%</td> <td></td> </tr> <tr> <td>Urocortin (7-40) (Rat)</td> <td>260%</td> <td>Urocortin (1-22) (Rat)</td> <td><0.1%</td> <td></td> </tr> </table>	Urocortin (3-40) (Rat)	100%	Urocortin (Rat)	164.7%		CRF (Human, Rat)	0%	Urotensin I (Carp)	<0.1%		Urocortin (Human)	100%	Urocortin (30-40) (Rat)	100%		Urocortin (7-40) (Rat)	260%	Urocortin (1-22) (Rat)	<0.1%		
Urocortin (3-40) (Rat)	100%	Urocortin (Rat)	164.7%																			
CRF (Human, Rat)	0%	Urotensin I (Carp)	<0.1%																			
Urocortin (Human)	100%	Urocortin (30-40) (Rat)	100%																			
Urocortin (7-40) (Rat)	260%	Urocortin (1-22) (Rat)	<0.1%																			

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y361	Anti Urocortin (Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Urocortin (Rat) - Porcine Thyroglobulin For RIA: 1: 2,000 (final dilution ~1: 16,000) For Immunohistochemistry: 1: 1,000-6,000 Specificity: Urocortin (Rat) 100% Urocortin (Human) ~100% Urocortin (1-22) (Rat) <0.5% Urocortin (23-40) (Rat) 45% CRF (Human, Rat) 0% Urotensin I (Carp) 2%			
Y362	Anti Urocortin 1 (Mouse, Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Urocortin 1 (Mouse, Rat)-pTG conjugate For EIA: 1:8,000 For Immunohistochemistry: 1:5,000 Specificity: Urocortin 1 (Mouse, Rat) 100% Urocortin 1 (8-40) (Mouse, Rat) ... 100% Urocortin 1 (16-40) (Mouse, Rat) ... 84.67% Urocortin 1 (23-40) (Mouse, Rat) ... 96.82% Urocortin 1 (30-40) (Mouse, Rat) ... 16.47% Urocortin 1 (1-14) (Mouse, Rat) ... 0.14% Urocortin 1 (Human) 51.32% Urocortin 2 (Mouse) 0% Urocortin 2 (Rat) 0% Urocortin 3 (Mouse) 0% ACTH (Human) 0% ACTH (Mouse, Rat) 0% CRF (Human, Mouse, Rat) 0% CRF (17-41) (Human, Mouse, Rat) ... 0%			
Y363	Anti Urocortin 2 (Mouse) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Urocortin 2 (Mouse)-pTG conjugate For EIA: 1:8,000 For Immunohistochemistry: 1:5,000 Specificity: Urocortin 2 (Mouse) 100% Urocortin 2 (7-38) (Mouse) 80.52% Urocortin 2 (14-38) (Mouse) ... 24.23% Urocortin 2 (21-38) (Mouse) 0.21% Urocortin 2 (26-38) (Mouse) 0.41% Urocortin 2 (32-38) (Mouse) 0.19% Urocortin 2 (1-13) (Mouse) 0.12% Urocortin 1 (Mouse, Rat) 0% Urocortin 1 (Human) 0% Urocortin 2 (Rat) <1% Urocortin 3 (Mouse) 0% ACTH (Human) 0% ACTH (Mouse, Rat) 0.61% CRF (Human, Mouse, Rat) 0% CRF (17-41) (Human, Mouse, Rat) ... 0%			
Y364	Anti Urocortin 3 (Mouse) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Urocortin 3 (Mouse)-pTG conjugate For EIA: 1:8,000 For Immunohistochemistry: 1:5,000 Specificity: Urocortin 3 (Mouse) 100% Urocortin 3 (7-38) (Mouse) 78.72% Urocortin 3 (13-38) (Mouse) ... 80.79% Urocortin 3 (21-38) (Mouse) ... 57.89% Urocortin 3 (28-38) (Mouse) ... 47.58% Urocortin 3 (32-38) (Mouse) ... 72.26% Urocortin 3 (1-12) (Mouse) 0.15% Urocortin 1 (Mouse, Rat) 0% Urocortin 1 (Human) 0.04% Urocortin 2 (Mouse) 0% Urocortin 2 (Rat) 0% ACTH (Human) 0.03% ACTH (Mouse, Rat) 0.03% CRF (Human, Mouse, Rat) 0.01% CRF (17-41) (Human, Mouse, Rat) ... 0%			
Y370	Anti Insulin (Human) Serum	Guinea Pig	50 µl	35,000
-20°C	Immunogen: Recombinant Insulin (Human), carrier free For RIA: 1: 1,000-3,000 (final dilution ~1: 21,000) For Immunohistochemistry: 1: 1,000- 5,000 Specificity: Insulin (Human)..... 100% Insulin (Porcine) 100% Insulin (Rabbit) 100% Insulin (Dog) 100% Insulin (Bovine) 18% Proinsulin (Human) 20%			

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y380	Anti Luminal Cholecystokinin-Releasing Factor (LCRF) (Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic LCRF (Rat)-Keyhole Limpet Hemocyanin For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 500-2,000 Specificity: LCRF (Rat) 100% LCRF(19-41) 0.01% LCRF(1-21)..... 10%			
Y390	Anti GRF/GH-RH (Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic GRF/GH-RH (Rat), carrier free For RIA: 1: 1,000-3,000 (final dilution ~1: 21,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: GRF/GH-RH (Rat) 100% Not tested for other peptide hormones			
Y400	Anti Na⁺ Channel II (467-485) (Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Na ⁺ Channel II (467-485) (Rat), carrier free For Immunohistochemistry: 1: 1,000-4,000 (frozen section) This antiserum recognizes sodium channel II, not tested for other types of ion channels.			
Y410	Anti Angiostatin (128-141) (Mouse) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Angiostatin (128-141) (Mouse)-Keyhole Limpet Hemocyanin For Immunohistochemistry: 1: 100-500 (frozen section) For Immunoblotting: 1: 50-500 for Western blotting. Specificity: Angiostatin (128-141) (Mouse)..... 100% By Western blotting, a 38-kDa band corresponding to mouse angiostatin was observed in serum of mice bearing s.c. tumors.			
Y411	Anti Angiostatin (285-294) (Mouse) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Angiostatin (285-294) (Mouse)-Keyhole Limpet Hemocyanin For Immunohistochemistry: 1: 100-500 (frozen section) Specificity: Angiostatin (285-294) (Mouse)..... 100%			
Y420	Anti PTH (1-34)-NH₂ (Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic PTH (1-34)-NH ₂ (Rat), Carrier free For RIA: 1: 3,000 (final dilution ~1: 21,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: PTH (1-34)-NH ₂ (Rat) 100% PTH (1-34)-NH ₂ (Human) 1% PTHrP (1-34)-NH ₂ (Human) 0%			
Y421	Anti PTH (1-15) (Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic PTH (1-15) (Rat)-Keyhole Limpet Hemocyanin For RIA: 1: 3,000 (final dilution ~1: 21,000) For Immunohistochemistry: 1: 1,000-4,000 Specificity: PTH (1-15) (Rat) 100% PTH (1-34)-NH ₂ (Rat)..... 10%			
Y430	Anti Nociceptin/Orphanin FQ (Human, Rat) Serum	Rabbit	50 µl	35,000
-20°C	Immunogen: Synthetic Nociceptin/Orphanin FQ (Human, Rat), carrier free For RIA: 1: 1,500 (final dilution ~1: 10,500) For Immunohistochemistry: 1: 500-1,000 (frozen section) Specificity: Nociceptin (Human, Rat) 100% Dynorphin A 0% β-Endorphin 0%			

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
Y440	Anti Humanin Serum Immunogen: Synthetic Humanin-Keyhole Limpet Hemocyanin For EIA: 1: 8,000 For Immunohistochemistry: 1: 5,000 Specificity: Humanin 100% Humanin (5-24) 35% Humanin (9-24) 1.9% Humanin (14-24) 0.18% Humanin (19-24) 0.18% Humanin (9-18) 0% Rattin-38 0% Rattin-24 0%	Rabbit	50 µl	35,000
Y441	Anti Rattin-24 Serum Immunogen: Synthetic Rattin-24-Keyhole Limpet Hemocyanin For EIA: 1: 10,000 For Immunohistochemistry: 1: 20,000 Specificity: Rattin-24 100% Rattin-38 100% Humanin 3.8%	Rabbit	50 µl	35,000
Y450	Anti Orexin A Serum Immunogen: Synthetic Orexin A-pTG conjugate For EIA: 1:8,000 For Immunohistochemistry: 1:10,000 Specificity: Orexin A (Bovine, Dog, Human, Mouse, Porcine, Rat) 100% Orexin B (Mouse, Rat) 0%	Rabbit	50 µl	35,000
Y451	Anti Orexin B (Mouse, Rat) Serum Immunogen: Synthetic Orexin B (Mouse, Rat)-KLH conjugate For EIA: 1:8,000 For Immunohistochemistry: 1:6,000 Specificity: Orexin B (Mouse, Rat) 100% Orexin A (Bovine, Dog, Human, Mouse, Porcine, Rat) 0%	Rabbit	50 µl	35,000
YA010	Anti Amyloid β Protein (1-40) (Human) Serum Immunogen: Synthetic Amyloid β Protein (1-40) (Human), carrier free For Immunohistochemistry: 1: 1,000 (frozen section) Specificity: Amyloid β Protein (Human) specific.	Rabbit	50 µl	40,000
YC010	Anti IL-1α (Rat) Serum Immunogen: Recombinant IL-1α (Rat), carrier free For ELISA: 1: 10,000 For Western Blotting: 1: 1,000 Specificity: IL-1α (Rat) 100% IL-1α (Human) 24.8% IL-1β (Rat) <0.01% IL-1β (Human) <0.01% TNF-α (Rat) <0.01% TNF-α (Human) <0.01% Other Cytokines <0.01%	Rabbit	50 µl	60,000
YC011	Anti IL-1α (Rat) Serum Immunogen: Recombinant IL-1α (Rat), carrier free For ELISA: 1: 1,000 For Western Blotting: 1: 1,000 Specificity: IL-1α (Rat) 100% IL-1α (Human) 5.9% IL-1β (Rat) <0.5% IL-1β (Human) <0.5% TNF-α (Rat) <0.5% TNF-α (Human) <0.5% Other Cytokines <0.5%	Goat	50 µl	60,000

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen															
YC020	Anti IL-1β (Rat) Serum	Rabbit	50 μ l	60,000															
-20 $^{\circ}$ C	Immunogen: Recombinant IL-1 β (Rat), carrier free For ELISA: 1: 1,000 For Western Blotting: 1: 1,000 Specificity: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">IL-1β (Rat)</td> <td style="width: 25%;">100%</td> <td style="width: 25%;">IL-1β (Human)</td> <td style="width: 10%;">6.8%</td> </tr> <tr> <td>IL-1α (Rat)</td> <td><0.1%</td> <td>IL-1α (Human)</td> <td><0.1%</td> </tr> <tr> <td>TNF-α (Rat)</td> <td><0.1%</td> <td>TNF-α (Human)</td> <td><0.1%</td> </tr> <tr> <td>Other Cytokines</td> <td><0.1%</td> <td></td> <td></td> </tr> </table>	IL-1 β (Rat)	100%	IL-1 β (Human)	6.8%	IL-1 α (Rat)	<0.1%	IL-1 α (Human)	<0.1%	TNF- α (Rat)	<0.1%	TNF- α (Human)	<0.1%	Other Cytokines	<0.1%				
IL-1 β (Rat)	100%	IL-1 β (Human)	6.8%																
IL-1 α (Rat)	<0.1%	IL-1 α (Human)	<0.1%																
TNF- α (Rat)	<0.1%	TNF- α (Human)	<0.1%																
Other Cytokines	<0.1%																		
YC021	Anti IL-1β (Rat) Serum	Goat	50 μ l	60,000															
-20 $^{\circ}$ C	Immunogen: Recombinant IL-1 β (Rat), carrier free For ELISA: 1: 1,000 For Western Blotting: 1: 1,000 Specificity: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">IL-1β (Rat)</td> <td style="width: 25%;">100%</td> <td style="width: 25%;">IL-1β (Human)</td> <td style="width: 10%;">19.2%</td> </tr> <tr> <td>IL-1α (Rat)</td> <td><0.01%</td> <td>IL-1α (Human)</td> <td><0.01%</td> </tr> <tr> <td>TNF-α (Rat)</td> <td><0.01%</td> <td>TNF-α (Human)</td> <td><0.01%</td> </tr> <tr> <td>Other Cytokines</td> <td><0.01%</td> <td></td> <td></td> </tr> </table>	IL-1 β (Rat)	100%	IL-1 β (Human)	19.2%	IL-1 α (Rat)	<0.01%	IL-1 α (Human)	<0.01%	TNF- α (Rat)	<0.01%	TNF- α (Human)	<0.01%	Other Cytokines	<0.01%				
IL-1 β (Rat)	100%	IL-1 β (Human)	19.2%																
IL-1 α (Rat)	<0.01%	IL-1 α (Human)	<0.01%																
TNF- α (Rat)	<0.01%	TNF- α (Human)	<0.01%																
Other Cytokines	<0.01%																		
YC022	Anti IL-1β (Rat) Monoclonal Antibody		50 μ l	60,000															
-20 $^{\circ}$ C	Immunogen: Recombinant IL-1 β (Rat), carrier free Type: IgG For ELISA: 1: 20,000 For Western Blotting: 1: 1,000 Specificity: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">IL-1β (Rat)</td> <td style="width: 25%;">100%</td> <td style="width: 25%;">IL-1β (Human)</td> <td style="width: 10%;"><0.28%</td> </tr> <tr> <td>IL-1α (Rat)</td> <td><0.01%</td> <td>IL-1α (Human)</td> <td><0.01%</td> </tr> <tr> <td>TNF-α (Rat)</td> <td><0.01%</td> <td>TNF-α (Human)</td> <td><0.01%</td> </tr> <tr> <td>Other Cytokines</td> <td><0.01%</td> <td></td> <td></td> </tr> </table>	IL-1 β (Rat)	100%	IL-1 β (Human)	<0.28%	IL-1 α (Rat)	<0.01%	IL-1 α (Human)	<0.01%	TNF- α (Rat)	<0.01%	TNF- α (Human)	<0.01%	Other Cytokines	<0.01%				
IL-1 β (Rat)	100%	IL-1 β (Human)	<0.28%																
IL-1 α (Rat)	<0.01%	IL-1 α (Human)	<0.01%																
TNF- α (Rat)	<0.01%	TNF- α (Human)	<0.01%																
Other Cytokines	<0.01%																		
YC030	Anti TNF-α (Rat) Serum	Rabbit	50 μ l	60,000															
-20 $^{\circ}$ C	Immunogen: Recombinant TNF- α (Rat), carrier free For ELISA: 1: 10,000 For Western Blotting: 1: 1,000 Specificity: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">TNF-α (Rat)</td> <td style="width: 25%;">100%</td> <td style="width: 25%;">TNF-α (Human)</td> <td style="width: 10%;">26.2%</td> </tr> <tr> <td>IL-1α (Rat)</td> <td><0.01%</td> <td>IL-1α (Human)</td> <td><0.01%</td> </tr> <tr> <td>IL-1β (Rat)</td> <td><0.01%</td> <td>IL-1β (Human)</td> <td><0.01%</td> </tr> <tr> <td>Other Cytokines</td> <td><0.01%</td> <td></td> <td></td> </tr> </table>	TNF- α (Rat)	100%	TNF- α (Human)	26.2%	IL-1 α (Rat)	<0.01%	IL-1 α (Human)	<0.01%	IL-1 β (Rat)	<0.01%	IL-1 β (Human)	<0.01%	Other Cytokines	<0.01%				
TNF- α (Rat)	100%	TNF- α (Human)	26.2%																
IL-1 α (Rat)	<0.01%	IL-1 α (Human)	<0.01%																
IL-1 β (Rat)	<0.01%	IL-1 β (Human)	<0.01%																
Other Cytokines	<0.01%																		
YC031	Anti TNF-α (Rat) Serum	Goat	50 μ l	60,000															
-20 $^{\circ}$ C	Immunogen: Recombinant TNF- α (Rat), carrier free For ELISA: 1: 1,000 For Western Blotting: 1: 1,000 Specificity: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">TNF-α (Rat)</td> <td style="width: 25%;">100%</td> <td style="width: 25%;">TNF-α (Human)</td> <td style="width: 10%;">35.7%</td> </tr> <tr> <td>IL-1α (Rat)</td> <td><0.01%</td> <td>IL-1α (Human)</td> <td><0.01%</td> </tr> <tr> <td>IL-1β (Rat)</td> <td><0.01%</td> <td>IL-1β (Human)</td> <td><0.01%</td> </tr> <tr> <td>Other Cytokines</td> <td><0.01%</td> <td></td> <td></td> </tr> </table>	TNF- α (Rat)	100%	TNF- α (Human)	35.7%	IL-1 α (Rat)	<0.01%	IL-1 α (Human)	<0.01%	IL-1 β (Rat)	<0.01%	IL-1 β (Human)	<0.01%	Other Cytokines	<0.01%				
TNF- α (Rat)	100%	TNF- α (Human)	35.7%																
IL-1 α (Rat)	<0.01%	IL-1 α (Human)	<0.01%																
IL-1 β (Rat)	<0.01%	IL-1 β (Human)	<0.01%																
Other Cytokines	<0.01%																		
YC032	Anti TNF-α (Rat) Monoclonal Antibody		50 μ l	60,000															
-20 $^{\circ}$ C	Immunogen: Recombinant TNF- α (Rat), carrier free Type: IgG For ELISA: 1: 1,000 For Western Blotting: 1: 1,000 Specificity: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">TNF-α (Rat)</td> <td style="width: 25%;">100%</td> <td style="width: 25%;">TNF-α (Human)</td> <td style="width: 10%;"><0.05%</td> </tr> <tr> <td>IL-1α (Human)</td> <td><0.05%</td> <td>IL-1α (Rat)</td> <td><0.05%</td> </tr> <tr> <td>IL-1β (Human)</td> <td><0.05%</td> <td>IL-1β (Rat)</td> <td><0.05%</td> </tr> <tr> <td>Other Cytokines</td> <td><0.05%</td> <td></td> <td></td> </tr> </table>	TNF- α (Rat)	100%	TNF- α (Human)	<0.05%	IL-1 α (Human)	<0.05%	IL-1 α (Rat)	<0.05%	IL-1 β (Human)	<0.05%	IL-1 β (Rat)	<0.05%	Other Cytokines	<0.05%				
TNF- α (Rat)	100%	TNF- α (Human)	<0.05%																
IL-1 α (Human)	<0.05%	IL-1 α (Rat)	<0.05%																
IL-1 β (Human)	<0.05%	IL-1 β (Rat)	<0.05%																
Other Cytokines	<0.05%																		

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
YC040	Anti Leptin (Rat) Serum	Rabbit	50 µl	60,000
-20°C	Immunogen: Recombinant Leptin (Rat), carrier free For RIA: 1: 3,000 (final dilution ~1: 21,000) For Immunohistochemistry: 1: 4,000 Specificity: Leptin (Rat) 100% Leptin (Human) 10%			
YP010	Anti LH-RH Serum	Rabbit	50 µl	40,000
-20°C	Immunogen: Synthetic [Glu ¹]-LH-RH-Human Serum Albumin For RIA: 1: 2,000-10,000 (final dilution ~1: 60,000) For Immunohistochemistry: 1: 500-4,000 (frozen section) Specificity: LH-RH 100% LH-RH(4-10) 100% LH-RH-OH 0.001% LH-RH(2-8) <0.001% Angiotensin-I 0% Neurotensin 0% Oxytocin 0% Substance P 0% Somatostatin 0% TRH 0% Vasopressin 0%			
YP020	Anti Somatostatin Serum	Rabbit	50 µl	40,000
-20°C	Immunogen: Synthetic Somatostatin-14-Ascaris suilla protein For RIA: 1: 2,000-10,000 (final dilution ~1: 60,000) For Immunohistochemistry: 1: 500-4,000 (frozen section) Specificity: Somatostatin-14 100% [Arg ¹]-Somatostatin-14 20% [Ser ³ , Ser ¹⁴]-Somatostatin-14 ... <0.001%			
YP030	Anti CCK-8 Serum	Rabbit	50 µl	40,000
-20°C	Immunogen: Synthetic CCK-8-Keyhole Limpet Hemocyanin For RIA: 1 : 625 (final dilution ~1: 5,000) For Immunohistochemistry: 1: 200-1,000 Specificity: CCK-8 100% CCK-33 100% CCK-39 84.6% CCK-8 (Nonsulfated) <0.01% CCK-4 <0.01% G-17-1 <0.01% Caerulein <0.01%			
YP040	Anti Total Glucagon Serum	Rabbit	50 µl	40,000
-20°C	Immunogen: Synthetic des-Asn ²⁸ Thr ²⁹ [Hse ²⁷]-Glucagon (CNBr-Glucagon)-Bovine Serum Albumin For RIA: 1 : 2,000-10,000 (final dilution ~1: 80,000) For Immunohistochemistry: 1: 1,000-5,000 (frozen section) Specificity: Pancreatic Glucagon 100% Glicentin (Porcine) 100% Glucagon (1-12) <0.001% VIP (Porcine) 0% Secretin (Porcine) 0% Glucagon (13-17) <0.001% Glucagon (19-29) 0%			
YP050	Anti NO Synthase I (998-1024) (Human) Serum	Rabbit	50 µl	40,000
-20°C	Immunogen: Synthetic NO Synthase I (998-1024) (Human), carrier free For RIA: 1: 2,000 (final dilution ~1: 14,000) For EIA: 1: 9,000 For Immunoblotting: 1: 2,000 For Immunohistochemistry: 1: 1,000-4,000 (frozen section) Specificity: NO Synthase I (998-1024) (Human) ... 100% NO Synthase II (Human) 0% NO Synthase III (Rat) 0%			

Antisera of Yanaihara Institute Inc. (continued)

Code	Product / Description	Host (Animal)	Quantity	Price:Yen
YP051	Anti NO Synthase II (77-105) (Rat) Serum	Rabbit	50 µl	40,000
-20°C	Immunogen: Synthetic NO Synthase II (77-105) (Rat), carrier free For Immunohistochemistry: 1: 1,000 (frozen section) Specificity: NO Synthase II (Rat) 100% NO Synthase II (Mouse) 70% NO Synthase I (Rat) 0% NO Synthase III (Rat) 0%			
YP060	Anti ATP Receptor P2X₄ (370-388) (Rat) Serum	Rabbit	50 µl	40,000
-20°C	Immunogen: Synthetic ATP Receptor P2X ₄ (370-388) (Rat), carrier free For Immunohistochemistry: 1: 5,000 (frozen section) Specificity: ATP Receptor P2X ₄ (rat), not tested for other P2X subtypes			
YP070	Anti G-Protein: Gα olf (23-38) (Human) Serum	Rabbit	50 µl	40,000
-20°C	Immunogen: Synthetic G-Protein: Gα olf (23-38) (Human), carrier free Immunoblotting: 1: 1,000 Specificity: (Based on Western blotting) : Gα olf specific			
YP071	Anti G-Protein: Gα i3 (105-127) (Human) Serum	Rabbit	50 µl	40,000
-20°C	Immunogen: Synthetic G-Protein: Gα i3 (105-127) (Human), carrier free Immunoblotting: 1: 1,000 Specificity: (Based on Western blotting) : Gα i3 specific			
YP080	Anti S100β (41-60) (Human, Mouse, Rat) Serum	Rabbit	50 µl	40,000
-20°C	New Immunogen: Synthetic S100β (41-60) (Human, Mouse, Rat)-KLH conjugate For Immunohistochemistry: 1:1,000-10,000 Specificity: S100β (41-60) (Human, Mouse, Rat) ... 100% S100β (Bovine) 100% S100β (16-36) (Human, Mouse, Rat) ... 0% S100β (74-92) (Human, Mouse) ... <0.1%			
YP081	Anti S100β (74-92) (Human, Mouse) Serum	Rabbit	50 µl	40,000
-20°C	New Immunogen: Synthetic S100β (74-92) (Human, Mouse)-KLH conjugate For Immunohistochemistry: 1:1,000-10,000 Specificity: S100β (74-92) (Human, Mouse) ... 100% S100β (Bovine) 100% S100β (16-36) (Human, Mouse, Rat) 0% S100β (41-60) (Human, Mouse, Rat) 0%			