

# Antisera of Yanaihara Institute Inc.

Antisera of Yanaihara Institute Inc. .... 274

Manufacturer:

## YANAIHARA INSTITUTE INC.

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| Code | Product  | Host (Animal) | Price:Yen |
|------|--|---------------|-----------|
| Y260 | <b>Anti Acidic-FGF (1-15) (Bovine) Serum</b>                                       | Rabbit        | 35,000    |
| Y352 | <b>Anti ACTH (1-23) (Rat) Serum</b>  | Rabbit        | 35,000    |
| Y351 | <b>Anti ACTH (21-39) (Rat) Serum</b>   | Rabbit        | 35,000    |
| Y350 | <b>Anti ACTH (Rat) Serum</b>   | Rabbit        | 35,000    |
| Y410 | <b>Anti Angiostatin (128-141) (Mouse) Serum</b>                                    | Rabbit        | 35,000    |
| Y411 | <b>Anti Angiostatin (285-294) (Mouse) Serum</b>                                    | Rabbit        | 35,000    |
| Y330 | <b>Anti Atrial Natriuretic Peptide (ANP) (Rat) Serum</b>                           | Rabbit        | 35,000    |
| Y251 | <b>Anti Basic-FGF (1-9) (Human) Serum</b>  | Rabbit        | 35,000    |
| Y250 | <b>Anti Basic-FGF (Human) Serum</b>  | Rabbit        | 35,000    |
| Y170 | <b>Anti Bombesin Serum</b>   | Guinea Pig    | 35,000    |
| Y340 | <b>Anti Calcitonin Gene-Related Peptide (<math>\alpha</math>-CGRP) (Rat) Serum</b> | Rabbit        | 35,000    |
| Y470 | <b>Anti Carassius RFamide Serum</b>  | Rabbit        | 35,000    |
| Y294 | <b>Anti Chromogranin A (1-28) (Rat) Serum</b>                                      | Rabbit        | 35,000    |
| Y292 | <b>Anti Chromogranin A (343-360) (Rat) Serum</b>                                   | Rabbit        | 35,000    |
| Y293 | <b>Anti Chromogranin A (344-374) (Human) Serum</b>                                 | Rabbit        | 35,000    |
| Y290 | <b>Anti Chromogranin A (359-389) (Rat) Serum</b>                                   | Rabbit        | 35,000    |
| Y291 | <b>Anti Chromogranin A (94-130) (Rat) Serum</b>                                    | Rabbit        | 35,000    |
| Y221 | <b>Anti C-Peptide I (Rat) Serum</b>  | Rabbit        | 35,000    |
| Y222 | <b>Anti C-Peptide I (Mouse) Serum</b>  | Rabbit        | 35,000    |
| Y220 | <b>Anti C-Peptide II (Rat) Serum</b>   | Rabbit        | 35,000    |
| Y223 | <b>Anti C-Peptide II (Mouse) Serum</b>   | Rabbit        | 35,000    |
| Y210 | <b>Anti CRF (24-41) (Human, Rat) Serum</b>   | Rabbit        | 35,000    |
| Y211 | <b>Anti CRF (3-41) (Human, Rat) Serum</b>  | Rabbit        | 35,000    |
| Y230 | <b>Anti EGF (Human) Serum</b>  | Rabbit        | 35,000    |
| Y231 | <b>Anti EGF (Rat) Serum</b>  | Rabbit        | 35,000    |
| Y300 | <b>Anti <math>\alpha</math>-Endorphin Serum</b>                                    | Rabbit        | 35,000    |
| Y182 | <b>Anti Galanin (1-15) Serum</b>   | Rabbit        | 35,000    |
| Y183 | <b>Anti Galanin (15-29) (Rat) Serum</b>  | Rabbit        | 35,000    |
| Y186 | <b>Anti Galanin (20-29) (Rat) Serum</b>  | Rabbit        | 35,000    |
| Y184 | <b>Anti Galanin (9-30) (Human) Serum</b>   | Rabbit        | 35,000    |
| Y180 | <b>Anti Galanin (Porcine) Serum</b>  | Rabbit        | 35,000    |
| Y110 | <b>Anti Gastrin 34 (1-15) (Human) Serum</b>  | Rabbit        | 35,000    |
| Y100 | <b>Anti GIP(1-30)-OH (Porcine) Serum</b>   | Rabbit        | 35,000    |
| Y101 | <b>Anti GIP (Human) Serum</b>  | Rabbit        | 35,000    |
| Y102 | <b>Anti GIP (Rat) Serum</b>  | Rabbit        | 35,000    |
| Y103 | <b>Anti GIP (18-42) (Rat) Serum</b>  | Rabbit        | 35,000    |
| Y324 | <b>Anti Glicentin (1-32) (Rat) Serum</b>   | Rabbit        | 35,000    |
| Y320 | <b>Anti GLP-1 (7-36)-NH<sub>2</sub> (Human) Serum</b>                              | Rabbit        | 35,000    |
| Y321 | <b>Anti GLP-2 (14-33) (Rat) Serum</b>  | Rabbit        | 35,000    |

## Antisera of Yanaihara Institute Inc. (continued)

| Code | Product   | Host (Animal) | Price:Yen |
|------|---|---------------|-----------|
| Y322 | <b>Anti GLP-2 (Rat) Serum</b>   | Rabbit        | 35,000    |
| Y323 | <b>Anti GLP-2 (Mouse) Serum</b>   | Rabbit        | 35,000    |
| Y311 | <b>Anti Gonadotropin-Releasing Hormone-Associated Peptide (GAP) (34-56) (Human) Serum</b> | Rabbit        | 35,000    |
| Y312 | <b>Anti Gonadotropin-Releasing Hormone-Associated Peptide (GAP) (28-56) (Rat) Serum</b>   | Rabbit        | 35,000    |
| Y390 | <b>Anti GRF/GH-RH (Rat) Serum</b>   | Rabbit        | 35,000    |
| Y160 | <b>Anti GRP (Porcine) Serum</b>   | Rabbit        | 35,000    |
| Y440 | <b>Anti Humanin Serum</b>   | Rabbit        | 35,000    |
| Y370 | <b>Anti Insulin (Human) Serum</b>   | Guinea Pig    | 35,000    |
| Y380 | <b>Anti Luminal Cholecystokinin-Releasing Factor (LCRF) (Rat) Serum</b>                   | Rabbit        | 35,000    |
| Y140 | <b>Anti Met-Enkephalin-Arg<sup>6</sup>-Gly<sup>7</sup>-Leu<sup>8</sup> Serum</b>          | Rabbit        | 35,000    |
| Y120 | <b>Anti Motilin (Dog) Serum</b>   | Rabbit        | 35,000    |
| Y121 | <b>Anti Motilin (Human, Porcine) Serum</b>  | Rabbit        | 35,000    |
| Y400 | <b>Anti Na<sup>+</sup> Channel II (467-485) (Rat) Serum</b>                               | Rabbit        | 35,000    |
| Y130 | <b>Anti Neurotensin Serum</b>   | Rabbit        | 35,000    |
| Y430 | <b>Anti Nociceptin/Orphanin FQ (Human, Rat) Serum</b>                                     | Rabbit        | 35,000    |
| Y061 | <b>Anti NPY(1-19) (Human, Rat, Mouse) Serum</b>   | Rabbit        | 35,000    |
| Y060 | <b>Anti NPY (Human, Rat, Mouse) Serum</b>   | Rabbit        | 35,000    |
| Y460 | <b>Anti Obestatin (Rat, Mouse) Serum</b>  | Rabbit        | 35,000    |
| Y461 | <b>Anti Obestatin (Human) Serum</b>   | Rabbit        | 35,000    |
| Y450 | <b>Anti Orexin A Serum</b>  | Rabbit        | 35,000    |
| Y451 | <b>Anti Orexin B (Mouse, Rat) Serum</b>   | Rabbit        | 35,000    |
| Y042 | <b>Anti PACAP (1-15) (Human) Serum</b>  | Rabbit        | 35,000    |
| Y051 | <b>Anti PACAP27 (13-27) (Human) Serum</b>   | Rabbit        | 35,000    |
| Y050 | <b>Anti PACAP27 (Human) Serum</b>   | Rabbit        | 35,000    |
| Y041 | <b>Anti PACAP38 (22-38) (Human) Serum</b>   | Rabbit        | 35,000    |
| Y040 | <b>Anti PACAP38 (Human) Serum</b>   | Rabbit        | 35,000    |
| Y090 | <b>Anti Pancreastatin (33-51) (Rat) Serum</b>   | Rabbit        | 35,000    |
| Y080 | <b>Anti Pancreatic polypeptide (PP) (18-36) (Human) Serum</b>                             | Rabbit        | 35,000    |
| Y072 | <b>Anti Peptide YY (PYY) (Human) Serum</b>  | Rabbit        | 35,000    |
| Y070 | <b>Anti Peptide YY (PYY) (Porcine, Rat) Serum</b>   | Rabbit        | 35,000    |
| Y021 | <b>Anti PHI (13-27) (Human) Serum</b>   | Rabbit        | 35,000    |
| Y020 | <b>Anti PHI (Human) Serum</b>   | Rabbit        | 35,000    |
| Y022 | <b>Anti PHI (Rat) Serum</b>   | Rabbit        | 35,000    |
| Y185 | <b>Anti Preprogalanin (89-124) (Rat) Serum</b>  | Rabbit        | 35,000    |
| Y190 | <b>Anti Preprorenin (21-64) (Human) Serum</b>   | Rabbit        | 35,000    |
| Y191 | <b>Anti Prorenin (265-294) (Human) Serum</b>  | Rabbit        | 35,000    |
| Y192 | <b>Anti Prorenin (314-337) (Human) Serum</b>  | Rabbit        | 35,000    |
| Y310 | <b>Anti Pro-LH-RH (1-26) (Human) Serum</b>  | Rabbit        | 35,000    |
| Y480 | <b>Anti PSA (53-92) (Human) Serum</b>   | Rabbit        | 35,000    |
| Y421 | <b>Anti PTH (1-15) (Rat) Serum</b>  | Rabbit        | 35,000    |

## Antisera of Yanaihara Institute Inc. (continued)

| Code  | Product  | Host (Animal) | Price:Yen |
|-------|--|---------------|-----------|
| Y420  | <b>Anti PTH (1-34)-NH<sub>2</sub> (Rat) Serum</b>                      | Rabbit        | 35,000    |
| Y201  | <b>Anti PTHrP (1-34)-NH<sub>2</sub> Serum</b>                          | Rabbit        | 35,000    |
| Y202  | <b>Anti PTHrP (15-34)-NH<sub>2</sub> Serum</b>                         | Rabbit        | 35,000    |
| Y441  | <b>Anti Rattin-24 Serum</b>  | Rabbit        | 35,000    |
| Y280  | <b>Anti Retinoblastoma (RB) Protein (901-928) (Human) Serum</b>        | Rabbit        | 35,000    |
| Y030  | <b>Anti Secretin (Human) Serum</b>                                     | Rabbit        | 35,000    |
| Y031  | <b>Anti Secretin (Porcine) Serum</b>                                   | Rabbit        | 35,000    |
| Y032  | <b>Anti Secretin (Rat) Serum</b>                                       | Rabbit        | 35,000    |
| Y150  | <b>Anti Substance P Serum</b>  | Rabbit        | 35,000    |
| Y240  | <b>Anti TGF-<math>\alpha</math> (Human) Serum</b>                      | Rabbit        | 35,000    |
| Y241  | <b>Anti TGF-<math>\beta</math><sub>1</sub> (Human) Serum</b>           | Rabbit        | 35,000    |
| Y360  | <b>Anti Urocortin (3-40) (Rat) Serum</b>                               | Rabbit        | 35,000    |
| Y361  | <b>Anti Urocortin (Rat) Serum</b>                                      | Rabbit        | 35,000    |
| Y362  | <b>Anti Urocortin 1 (Mouse, Rat) Serum</b>                             | Rabbit        | 35,000    |
| Y363  | <b>Anti Urocortin 2 (Mouse) Serum</b>                                  | Rabbit        | 35,000    |
| Y364  | <b>Anti Urocortin 3 (Mouse) Serum</b>                                  | Rabbit        | 35,000    |
| Y365  | <b>Anti Urocortin 2 (Rat) Serum</b>                                    | Rabbit        | 35,000    |
| Y010  | <b>Anti VIP (Human, Porcine) Serum</b>                                 | Rabbit        | 35,000    |
| YA010 | <b>Anti Amyloid <math>\beta</math> Protein (1-40) (Human) Serum</b>    | Rabbit        | 40,000    |
| YP060 | <b>Anti ATP Receptor P2X<sub>4</sub> (370-388) (Rat) Serum</b>         | Rabbit        | 40,000    |
| YP030 | <b>Anti CCK-8 Serum</b>  | Rabbit        | 40,000    |
| YP070 | <b>Anti G-Protein: G<math>\alpha</math> olf (23-38) (Human) Serum</b>  | Rabbit        | 40,000    |
| YP071 | <b>Anti G-Protein: G<math>\alpha</math> i3 (105-127) (Human) Serum</b> | Rabbit        | 40,000    |
| YP010 | <b>Anti LH-RH Serum</b>  | Rabbit        | 40,000    |
| YP050 | <b>Anti NO Synthase I (998-1024) (Human) Serum</b>                     | Rabbit        | 40,000    |
| YP051 | <b>Anti NO Synthase II (77-105) (Rat) Serum</b>                        | Rabbit        | 40,000    |
| YP080 | <b>Anti S100<math>\beta</math>(41-60) (Human, Mouse, Rat) Serum</b>    | Rabbit        | 40,000    |
| YP081 | <b>Anti S100<math>\beta</math>(74-92) (Human, Mouse) Serum</b>         | Rabbit        | 40,000    |
| YP020 | <b>Anti Somatostatin Serum</b>   | Rabbit        | 40,000    |
| YP040 | <b>Anti Total Glucagon Serum</b>                                       | Rabbit        | 40,000    |
| YC010 | <b>Anti IL-1<math>\alpha</math>(Rat) Serum</b>                         | Rabbit        | 60,000    |
| YC011 | <b>Anti IL-1<math>\alpha</math> (Rat) Serum</b>                        | Goat          | 60,000    |
| YC020 | <b>Anti IL-1<math>\beta</math> (Rat) Serum</b>                         | Rabbit        | 60,000    |
| YC021 | <b>Anti IL-1<math>\beta</math> (Rat) Serum</b>                         | Goat          | 60,000    |
| YC022 | <b>Anti IL-1<math>\beta</math> (Rat) Monoclonal Antibody</b>           |               | 60,000    |
| YC040 | <b>Anti Leptin (Rat) Serum</b>   | Rabbit        | 60,000    |
| YC030 | <b>Anti TNF-<math>\alpha</math> (Rat) Serum</b>                        | Rabbit        | 60,000    |
| YC031 | <b>Anti TNF-<math>\alpha</math> (Rat) Serum</b>                        | Goat          | 60,000    |
| YC032 | <b>Anti TNF-<math>\alpha</math> (Rat) Monoclonal Antibody</b>          |               | 60,000    |

| Code  | Product                                     | Assay Range          | Price:Yen |
|-------|---|----------------------|-----------|
| YK010 | <b>C-Peptide (Rat)-EIA Kit</b>              | 1.56 - 50 ng/ml      | 76,000    |
| YK011 | <b>C-Peptide I (Mouse)-EIA Kit</b>          | 0.617 - 50 ng/ml     | 76,000    |
| YK012 | <b>C-Peptide II (Mouse)-EIA Kit</b>         | 0.412 - 100 ng/ml    | 76,000    |
| YK013 | <b>C-Peptide (Mouse)-EIA Kit</b>            | 0.412 - 100 ng/ml    | 76,000    |
| YK050 | <b>Leptin (Rat)-ELISA Kit</b>               | 80 - 20,000 pg/ml    | 60,000    |
| YK051 | <b>Leptin-HS (Rat)-ELISA Kit</b>            | 78.1 - 2500 pg/ml    | 60,000    |
| YK052 | <b>Leptin (Mouse)-ELISA Kit</b>             | 0.313 - 20 ng/ml     | 60,000    |
| YK060 | <b>Insulin-ELISA Kit</b>                    | 0.137 - 100 ng/ml    | 50,000    |
| YK070 | <b>Chromogranin A (Human)-EIA Kit</b>       | 0.1 - 10 pmol/ml     | 76,000    |
| YK080 | <b>Peptide YY (Human)-EIA Kit</b>           | 10 - 10,000 pg/ml    | 76,000    |
| YK081 | <b>Peptide YY (Rat)-EIA Kit</b>             | 50 - 10,000 pg/ml    | 76,000    |
| YK090 | <b>Glucagon (Human, Rat, Mouse)-EIA Kit</b> | 50 - 10,000 pg/ml    | 76,000    |
| YK100 | <b>NO Synthase I (Human, Rat)-EIA Kit</b>   | 0.98 - 1000 ng/ml    | 76,000    |
| YK111 | <b>Glicentin (Rat)-EIA Kit</b>              | 206 - 50,000 fmol/ml | 76,000    |
| YK131 | <b>CRF (Human, Rat, Mouse)-HS ELISA Kit</b> | 0.078 - 2.5 ng/ml    | 79,000    |
| YK140 | <b>GLP-2 (Rat)-EIA Kit</b>                  | 0.137 - 100 ng/ml    | 76,000    |
| YK141 | <b>GLP-2 (Human)-EIA Kit</b>                | 0.137 - 100 ng/ml    | 76,000    |
| YK142 | <b>GLP-2 (Mouse)-EIA Kit</b>                | 0.412 - 100 ng/ml    | 76,000    |
| YK150 | <b>S-100β (Human)-ELISA Kit</b>             | 98 - 63,000 pg/ml    | 76,000    |
| YK160 | <b>GLP-1 (Human, Rat, Mouse)-EIA Kit</b>    | 206 - 50,000 pg/ml   | 76,000    |
| YK190 | <b>Urocortin 2 (Mouse)-EIA Kit</b>          | 0.82 - 200 ng/ml     | 76,000    |
| YK191 | <b>Urocortin 2 (Rat)-EIA Kit</b>            | 1.56 - 100 ng/ml     | 76,000    |
| YK200 | <b>Urocortin 3 (Mouse, Rat)-EIA Kit</b>     | 0.41 - 100 ng/ml     | 76,000    |
| YK210 | <b>Urocortin 1 (Mouse, Rat)-EIA Kit</b>     | 1.563 - 100 ng/ml    | 76,000    |
| YK230 | <b>Obestatin (Rat, Mouse)-EIA Kit</b>       | 0.082 - 20 ng/ml     | 76,000    |
| YK231 | <b>Obestatin (Human)-EIA Kit</b>            | 0.412 - 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、標識抗原としてビオチン化ラット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>

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- 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).

