

Our undiluted antisera are suitable for immunohistochemical use, for application to radioimmunoassay (RIA) and other non-isotopic immunoassay systems. While these antisera are characterized in terms of their specificity and sensitivity using enzyme immunoassays, they are not controlled to the rigorous specifications of prediluted antisera. These can be adjusted to optimum concentrations for RIA or other immunoassay.

14135-v ANP (Human, 1-28) Antiserum
A-type (Atrial) Natriuretic Peptide (Human, 1-28) Antiserum
(Rabbit)

Antiserum 50 µl/vial
Lyophilized from 0.001 M Phosphate Buffer (pH 7.0)

Lot No. 854-421015

Immunogen : ANP (Human, 1-28) - TG (TG : Bovine Thyroglobulin)

Specificity :

ANP (Human, 1-28)	100%
ANP (Human, 7-28)	100%
[Met(O) ¹²]-ANP (Human)	150%
ANP (Rat, 1-28)	55%
β-ANP (Human, 1-28 Dimer)	100%
BNP-26 (Porcine)	0%

No cross-reactions against the following peptides are observed at much higher doses (10-100 nmol/ml).

Oxytocin, [Arg⁸]-Vasopressin, Somatostatin, Methionine-Enkephalin, and β-Endorphin (Human)

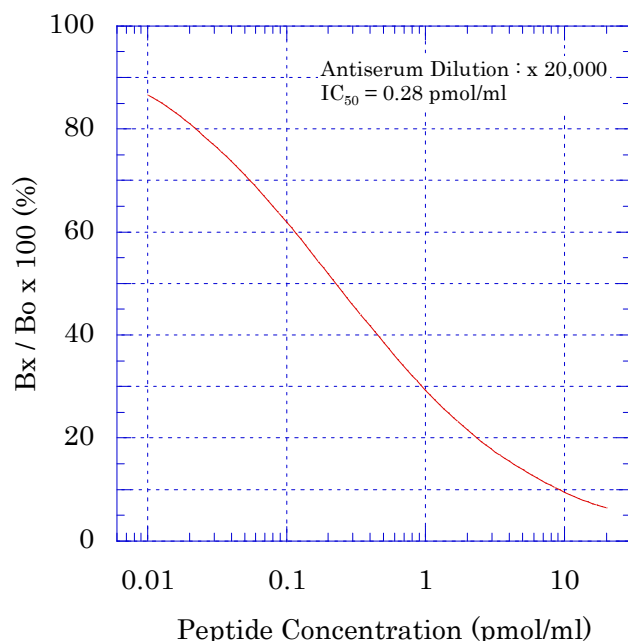
Sensitivity : IC₅₀ = 85 pg/tube, (0.28 pmol/ml)

The standard curve is obtained by enzyme immunoassay using β-D-galactosidase as a label. A brief diagram of the assay system is shown below.

Storage and Stability :

This lyophilized antiserum is stable for one month at room temperature. For long time storage, we recommend storing it in a deep freezer. After reconstitution with your buffer, the solution can be kept at 4° for continuous use with a preservative. For extended storage of the solution, it should be frozen at -20°.

Standard Curve of ANP (Human, 1-28)



Assay System

Diluted antiserum	0.1 ml
Standard solution	0.1 ml
Assay buffer	0.1 ml

↓
Preincubation at 4° for 5-6 hr.
↓ Delayed addition of β-D-galactosidase
↓ labeled antigens 0.1 ml
1st Incubation at 4° for 15 hr.
↓ Addition of immunobead 0.1 ml
2nd Incubation at room temperature for 3 hr.
↓
Centrifugation at 4° for 5 min.
↓ Decantation and rinse (twice)
Determination of enzyme activity in precipitate
↓
Calculation (Bx/Bo x 100)

Caution: This product is sold for research purposes only and not for use in humans.