



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Atrial Natriuretic Factor (Urodilatin) (1-28)

Atrial Natriuretic Factor (ANF) is a 28 amino acid peptide hormone secreted mainly by the heart atria in response to atrial stretch. ANF acts on the kidney to increase sodium excretion and glomerular filtration rate (GFR), to antagonize renal vasoconstriction, and to inhibit renin secretion. In addition, Atrial Natriuretic Factor consists of Atrial Natriuretic Peptide (ANP) which exists in its precursor form, pro-ANP and it is an active ANP with a longer peptide chain (Urodilatin) and an antiparallel dimer of active ANP:

This antibody was generated by immunization of rabbits with Atrial Natriuretic Factor (Urodilatin) (1-28) coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4554 (Lot A11658)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Human, Bovine, Porcine
Quantity:	400µg
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative. Reconstitute by adding 0.2ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Immunogen:	Synthetic peptide H-Thr-Ala-Pro-Arg-Ser-Leu-Arg-Arg-Ser-Ser-Cys-Phe-Gly-Gly-Arg-Met-Asp-Arg-Ile-Gly-Ala-Gln-Ser-Gly-Leu-Gly-Cys-Asn-Ser-Phe-Arg-Tyr-OH, (Disulfide bond) coupled to carrier protein.
Protein database:	<u>human-P01160</u> , <u>bovine-P07501</u> , <u>porcine-P24259</u>

Cross-Reactivity:

PEPTIDE	%
Thr-Ala-Pro-Arg-ANF (1-28) (human)	100
ANF (1-28) (human)	100
β -ANF (dimmer, antiparallel) (human)	100
ANF (rat)	100
BNP-32 (human)	0
CNP (32-53) (porcine, rat, human)	0
Endothelin-1 (human, porcine, canine, rat, mouse, bovine)	0

Applications:

Tested in ELISA against Atrial Natriuretic Factor (Urodilatin) (1-28) and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Approximate working dilution for IHC:

Paraffin sections: (1:800); pretreatment with Proteinase K for antigen retrieval is recommended.

Optimal dilutions should be determined by the end user.

Please see www.bma.ch for protocols and general information

Related Products:

S-1231: ELISA (hu. bo. po), high sensitivity for extracted samples

T-4010: anti ANF (1-28) (hu, bo, po), purified IgG

T-4009: anti ANF (1-28) (hu, bo, po), diluted antiserum

T-4015: anti ANF (1-28) (ms, rb, rt), neat antiserum

S-1132: ELISA (ms, rb, rt), high sensitivity for extracted samples

T-4555: Urodilatin (1-28) (ms, rb, rt), neat antiserum

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.