



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti β -Atrial Natriuretic Factor (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 β -Atrial Natriuretic Factor (1-28) (Dimer, Antiparallel) coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4169 (Lot n/a)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Human
Quantity:	400 μ g
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffered 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-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 linked dimer) coupled to carrier protein.
Protein database:	<u>human-P01160</u>

Cross-Reactivity:

PEPTIDE	%
β -ANP (1-28) (dimer, antiparallel) (human)	100
ANF (4-28) (human)	3.4
ANF (1-28) (human)	2.9
Urodilatin	2.8

Cross-Reactivity:

PEPTIDE	%
ANF Fragment (1-11) (human)	0
ANF (rat)	<1
CNP (32-53) (porcine, rat, human)	0
BNP-32 (human)	0

Applications:

Tested in ELISA against β -Atrial Natriuretic Factor (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:

T-4168: Rabbit anti β -ANF (1-28) (Dimer, Antiparallel), diluted antiserum

T-4176: Rabbit anti-ANF (56-92), diluted antiserum

T-4174: Rabbit anti ANF (26-55), neat antiserum

S-1189: ELISA high sensitivity for extracted samples (Dimer,Antiparallel)

S-1434: ELISA high sensitivity for extracted samples (104-123)

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