T-4168

Rabbit anti β-Atrial Natriuretic Factor (1-28) (Dimer, Antiparallel) (human) [UniProt: P01160]

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

Lot number: n/a

Host species: Rabbit IgG

Quantity: 50ml

Format: This polyclonal antibody is supplied as a lyophilized powder. The powder should be rehydrated with 50ml of RIA buffer. Upon reconstitution to 50ml total volume, the solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN_3, and 0.1% Triton X-100. Store at 4° - 8°C. This should ensure antibody stability for approximately one month.

Stability: Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below.

Applications: This antibody has been tested and validated in ELISA against β-ANF (1-28) (Dimer, Antiparallel). Other applications like immunohistochemistry (IHC), FACS or Western Blot may work as well.
Optimal dilutions should be determined by the end user.
Please see **www.bma.ch** for protocols and general information.

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.

Cross-Reactivity:

PEPTIDE	%
β-ANF (1-28) (Dimer, Antiparallel) (human)	100
α-ANP (4-28) (human, canine)	3.4
α-ANP (1-28) (human, canine)	2.9
Thr-Ala-Pro-Arg-ANF (1-28) (human)	2.8
α-ANP (1-11) (human, canine)	0
ANF (1-28) (rat)	<1
C-Type NP (32-53) (porcine, rat, human)	0
BNP-32 (human)	0

Related Products: T-4169: anti ANF (1-28) (Dimer, Antiparallel) (hu), purified IgG
T-4176: anti-ANF (56-92) (hu), diluted antiserum
T-4174: anti ANF (26-55) (hu), neat antiserum
S-1189: ELISA (Dimer,Antiparallel) high sensitivity for extracted samples
S-1434: ELISA (104-123)(hu), high sensitivity for extracted samples

T-4168   diluted antiserum – hu   8.9.2020