BMA BIOMEDICALS

Peninsula Laboratories

Rabbit anti Brain Natriuretic Peptide-26 (BNP-26)

The natriuretic peptide family consists of three biologically active peptides: atrial natriuretic peptide (ANP), brain (or B-type) natriuretic peptide (BNP), and C-type natriuretic peptide (CNP). Among these, ANP and BNP are secreted by the heart and act as cardiac hormones. Both ANP and BNP preferentially bind to natriuretic peptide receptor-A (NPR-A) and exert similar effects. Expression and secretion of ANP and BNP are stimulated by various factors and are regulated via multiple signaling pathways. The human BNP precursor proBNP is proteolytically processed to BNP_{1-32} and N-terminal proBNP (NT-proBNP) within ventricular myocytes. Uncleaved proBNP as well as mature BNP_{1-32} and NT-proBNP is secreted from the heart, and its secretion is increased in patients with heart failure.

This antibody was generated by immunization of rabbits with BNP-26 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4193 (Lot A08953)
Clonality:	Polyclonal
Host species:	Rabbit
Reactivity:	Porcine
Quantity:	50 µl
Format:	Neat undiluted antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 50 µl distilled water. This will give the equivalent of undiluted antiserum.
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 Synthetic peptide H-Asp-Ser-Gly-Cys-Phe-Gly-Arg-Arg-Leu-Asp-Arg-Ile-Gly-Ser-Leu-Ser-Gly-Leu-Gly-Cys-Asn-Val-Leu-Arg-Arg-Tyr-OH, (Disulfide bond) coupled to carrier protein.
Protein database:	porcine-P07634

Cross-Reactivity:

PEPTIDE:	%:
BNP-26 (porcine)	100
BNP-32 (rat)	<0.001
BNP-32 (human)	0
ANF (chicken)	0
ANF (1-28) (human)	0

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Cross-Reactivity:

PEPTIDE:	%:
ANF (rat)	0
β-ANP (1-28) (dimer, antiparallel) (human)	0
Atriopeptin I (rat)	0
Atriopeptin III (rat)	0
Substance P	0
VIP (human, bovine, porcine, rat)	0
Angiotensin II	0
ANF (rat)	0

Applications:

Tested in immunohistochemistry (IHC) and ELISA against BNP-26. Other applications like FACS or Western Blot may work as well.
Optimal dilutions should be determined by the end user.

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

Approximate working dilution for IHC:
Frozen sections: not tested yet.
Paraffin sections: 1:500; recommended Proteinase K pre-treatment.

Related Products:

S-1190: ELISA, high sensitivity for extracted samples
T-4196: porcine anti BNP-26, purified IgG
T-4195: porcine anti BNP-26, diluted antiserum

This product contains no preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.

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