



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti BNP-32

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 BNP₁₋₃₂ and N-terminal proBNP (NT-proBNP) within ventricular myocytes. Uncleaved proBNP as well as mature BNP₁₋₃₂ 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-32 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4023 (Lot 061541)
Clonality:	Polyclonal
Host species:	Rabbit
Reactivity:	Human
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 H-Ser-Pro-Lys-Met-Val-Gln-Gly-Ser-Gly-Cys-Phe-Gly-Arg-Lys-Met-Asp-Arg-Ile-Ser-Ser-Ser-Gly-Leu-Gly-Cys-Lys-Val-Leu-Arg-Arg-His-OH, (Disulfide bond) coupled to carrier protein.
Protein database:	n/a
Cross-Reactivity:	
PEPTIDE:	%:
BNP-32 (human)	100
BNP-32 (rat)	0.04
BNP-45 (rat)	0
BNP-26 (porcine)	0

Cross-Reactivity:

PEPTIDE:	%:
ANF (1-28) (human)	0
Endothelin-1 (human, canine, porcine, rat, mouse, bovine)	0
Angiotensin II (human)	0
VIP (human, bovine, porcine, rat)	0

Cross reactivity data is based on corresponding RIA kit S-2168.

Applications:

Tested in immunohistochemistry (IHC) and ELISA against BNP-32. 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-1136: human BNP-32 ELISA, high sensitivity for extracted samples

S-1194: human BNP-32 ELISA, extraction-free, for human samples

T-4022: anti human BNP-32, purified rabbit IgG

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