



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Brain Natriuretic Peptide-32 (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-4202 (Lot A08909)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Porcine
Quantity:	400µg
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-Pro-Lys-Thr-Met-Arg-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:	<u>porcine-P07634</u>

Cross-Reactivity:

PEPTIDE	%
BNP-32 (porcine)	100
BNP-32 (canine)	100
BNP-26 (porcine)	100
ANF (1-28) (human)	<0.1
CNP (32-53) (porcine)	<0.01
BNP-32 (human)	0
BNP-45 (rat)	0
BNP-32 (rat)	0
CNP (1-29) (porcine)	0
Endothelin-1 (human, porcine, dog, rat, mouse, bovine)	0

Applications:

Tested in ELISA against BNP-32 and in immunohistochemistry (IHC). Other applications like FACS and 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

Related Products:

S-1190: ELISA high sensitivity for extracted samples
T-4195: Rabbit anti BNP-26, diluted antiserum
T-4196: Rabbit anti BNP-26, purified antiserum (po)
T-4197: Rabbit anti BNP-26, neat antiserum (po)
T-4206: Rabbit anti BNP-32, purified antiserum (rt)
T-4207: Rabbit anti BNP-32, neat antiserum (rt)
T-4210: Rabbit anti BNP-45, purified antiserum (rt)
T-4211: Rabbit anti BNP-45, neat antiserum (rt)

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