



BMA BIOMEDICALS



Peninsula Laboratories

T-4199

**Rabbit anti Brain Natriuretic Peptide-34 (BNP-34) (3-34)
(dog) [UniProt: P16859]**

Brain natriuretic peptide (BNP), also known as B-type natriuretic peptide, is a hormone secreted by cardiomyocytes in the heart ventricles in response to stretching caused by increased ventricular blood volume. BNP is synthesized as a 134-amino acid preprohormone (preproBNP). The cleavage product into Brain natriuretic peptide 34 (BNP-34) is a cardiac hormone which may function as a paracrine antifibrotic factor in the heart. It also plays a key role in cardiovascular homeostasis through natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. Brain natriuretic peptide 34 binds and stimulates the cGMP production of the NPR1 receptor. Binds the clearance receptor NPR3

This antibody was generated by immunization of rabbits with BNP-34 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A03510
Host species:	Rabbit IgG
Quantity:	50ml diluted antiserum, lyophilized
Format:	Each vial contains enough antiserum for 500 RIA tubes. The powder should be rehydrated with 50ml 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°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 BNP-34. 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.

Cross-Reactivity:

PEPTIDE:	%
Brain Natriuretic Peptide-34 (3-34) (canine)	100
Brain Natriuretic Peptide-32 (human)	0
Brain Natriuretic Peptide-32 (rat)	0
Brain Natriuretic Peptide-32 (porcine)	0

Related Products: T-4200: Rabbit anti BNP-34 (3-34) (dog), neat antiserum

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

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diluted antiserum

1.3.2021