



BMA BIOMEDICALS



Peninsula Laboratories

T-4218

Rabbit anti C-Type Natriuretic Peptide (1-29) (mouse, porcine, rat) [UniProt: Q61839, P18104, P55207,]

Natriuretic peptide precursor C (NPPC) is a protein that in humans is encoded by the NPPC gene. The precursor NPPC protein is cleaved to the 22 amino acid peptide C-type natriuretic peptide (CNP). Natriuretic peptides comprise a family of 3 structurally related molecules: atrial natriuretic peptide (ANP), brain natriuretic peptide (BNP), and C-type natriuretic peptide (CNP). These peptides possess potent natriuretic, diuretic, and vasodilating activities and are implicated in body fluid homeostasis and blood pressure control. C-type natriuretic peptide (CNP) generates multiple protein products, include the cardiac natriuretic peptides CNP-53, CNP-29 and CNP-22.

This antibody was generated by immunization of rabbits with C-Type Natriuretic Peptide (1-29) coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

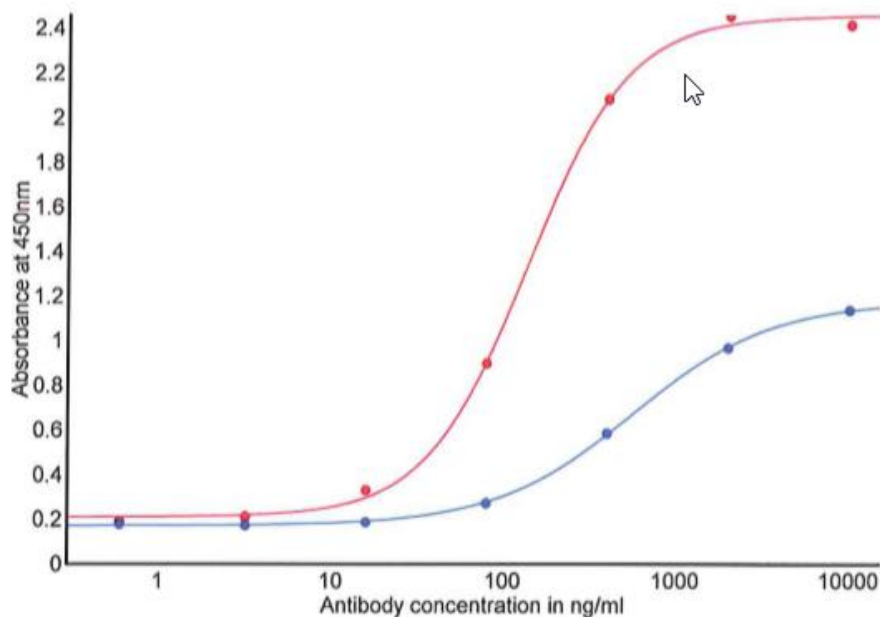
Lot number:	A03700
Host species:	Rabbit IgG
Quantity:	400µg
Format:	Protein A affinity purified from antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 0.2ml distilled water. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative.
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 C-Type Natriuretic Peptide (1-29). 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-Asp-Leu-Arg-Val-Asp-Thr-Lys-Ser-Arg-Ala-Ala-Trp-Ala-Arg-Leu-Leu-His-Glu-His-Pro-Asn-Ala-Arg-Lys-Tyr-Lys-Gly-Gly-Asn-OH coupled to a carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
CNP (1-29) (porcine)	100
CNP (1-53) (porcine)	0
CNP (32-53) (porcine)	0
ANF (1-28) (human)	0
BNP-32 (porcine)	0
Endothelin-1 (human, porcine, dog, rat, mouse, bovine)	0
ANF (rat)	0

Typical titration curve of purified anti CNP in a competitive ELISA with this antibody:

Procedure: antibody was applied to goat anti rabbit IgG-coated microtiter plate. tracer or tracer / antigen mixture was added, developed with streptavidin-HRPO and TMB as substrate for HRPO.



red curve: titration of antibody with CNP tracer (biotinylated peptide and streptavidin-HRPO); blue curve: inhibition of tracer by antigen, showing affinity of antibody for CNP and tracer.

Related Products:

- T-4221: anti CNP (32-53), diluted antiserum, host: rabbit
- T-4222: anti CNP (32-53), purified IgG, host: rabbit
- T-4223: anti CNP (32-53), neat antiserum, host: rabbit
- S-1512: ELISA, extraction-free for serum and plasma samples
- T-4219: anti CNP (29), neat antiserum, host: rabbit

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.

T-4218

rabbit IgG

1.3.2021