



BMA BIOMEDICALS



Peninsula Laboratories

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## T-4218

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

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.

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#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

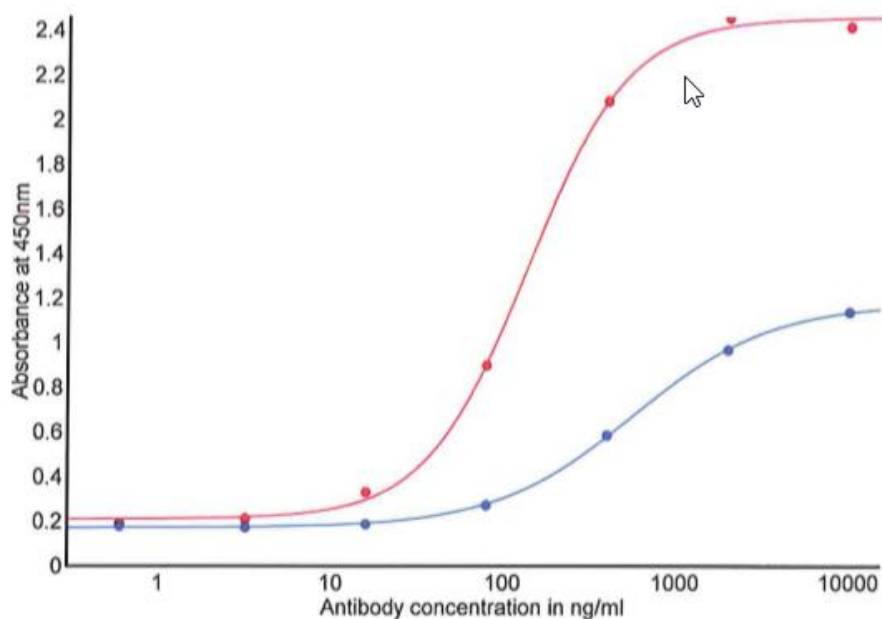
<b>Lot number:</b>	A03700
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	400µg
<b>Format:</b>	Protein A affinity purified from antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 0.2ml distilled water. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative.
<b>Stability:</b>	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.
<b>Applications:</b>	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 <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.

## 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

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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