



BMA BIOMEDICALS



Peninsula Laboratories

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## Rabbit anti C-Type Natriuretic Peptide (1-29)

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

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog Number:</b> | T-4218 (Lot A03700)                                                                                                                                                                     |
| <b>Clonality:</b>      | Polyclonal                                                                                                                                                                              |
| <b>Host species:</b>   | Rabbit IgG                                                                                                                                                                              |
| <b>Reactivity:</b>     | Mouse, porcine, rat                                                                                                                                                                     |
| <b>Quantity:</b>       | 400µg                                                                                                                                                                                   |
| <b>Format:</b>         | 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.

|                               |                                                                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability and Storage:</b> | Original vial: 1 year at 4° - 8°C from date of purchase.<br>Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles. |
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|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b> | 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 carrier protein. |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Protein database:</b> | <u><a href="#">mouse-Q61839</a></u> , <u><a href="#">porcine-P18104</a></u> , <u><a href="#">rat-P55207</a></u> |
|--------------------------|-----------------------------------------------------------------------------------------------------------------|

#### Cross-Reactivity:

| PEPTIDE               | %   |
|-----------------------|-----|
| CNP (1-29) (porcine)  | 100 |
| CNP (1-53) (porcine)  | 0   |
| CNP (32-53) (porcine) | 0   |

**Cross-Reactivity:**

| PEPTIDE                                                | % |
|--------------------------------------------------------|---|
| ANF (1-28) (human)                                     | 0 |
| BNP-32 (porcine)                                       | 0 |
| Endothelin-1 (human, porcine, dog, rat, mouse, bovine) | 0 |
| ANF (rat)                                              | 0 |

**Applications:**

Tested in ELISA against CNP (1-29) 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](http://www.bma.ch) for protocols and general information

**Related Products:**

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

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