

## Monoclonal Anti- Brain natriuretic peptide, BNP (Capture Ab)

**Catalog#** BDA1028

**Lot #** Check on the product label

**Size** 1 mg(14.11 mg/ml)

**Isotype** IgG2b

**Clone #** B4

**Host** Mouse

### Reactivity

Human

**Product Form** Liquid

### Purification & Buffer

Protein A or G purified and supplied in 0.01 M PBS (pH7.4) without preservative.

**Purity** >95% by HPLC & SDS-PAGE

**Immunogen** Recombinant BNP protein.

### Recommend Application

ELISA

Chemiluminescent immunoassay, CLIA

Other applications have not been tested.

The optimal dilutions should be determined by end user.

### Matched antibody pair

Capture Ab: BNP mAb (clone # B4)

Detection Ab: BNP mAb (clone # 2D6)

### Storage Instruction

Aliquot and store at -20°C for long term (at least one year).

Avoid repeated freeze and thaw cycles.

### Background

Brain natriuretic peptide or B-type natriuretic peptide (BNP) (also ventricular natriuretic peptide or natriuretic peptide B) is a 32-amino acid polypeptide secreted by the ventricles of the heart in response to excessive stretching of heart muscle

cells (cardiomyocytes). BNP is secreted attached to a 76 - amino acid N-terminal fragment in the prohormone called NT-proBNP (BNPT), which is biologically inactive. BNP is synthesized as a 134-amino acid preprohormone (preproBNP), encoded by the human gene NPPB.

### Reference

1. Ziskoven D, Forssmann WG, Holthausen U, Menz G, Addicks K, Rippegater G (1989). "Calcium Calmodulin antagonists Influences the release of Cardiodilatin/ANP from Atrial Cardiocytes". In Kaufmann W, Wambach G. Handbook Endocrinology of the Heart. Berlin: Verlag: Springer. pp. 233-4.

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