

# BNP (8D5B4C11): sc-101418

## BACKGROUND

Natriuretic peptides comprise a family of three structurally related molecules: atrial natriuretic peptide (ANP), brain natriuretic peptide (BNP) and C-type natriuretic peptide (CNP). ANP and BNP act mainly as cardiac hormones, produced primarily by the atrium and ventricle, respectively, while the gene encoding C-type natriuretic peptide is expressed mainly in the brain. These peptides possess potent natriuretic, diuretic and vasodilating activities and are implicated in body fluid homeostasis and blood pressure control. ANP, BNP and CNP are highly homologous within the 17-residue ring structure formed by an intramolecular disulfide linkage. The genes which encode for ANP and BNP map to human chromosome 1p36.22. The gene which encodes for CNP maps to human chromosome 2q37.1.

## REFERENCES

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## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## CHROMOSOMAL LOCATION

Genetic locus: NPPB (human) mapping to 1p36.22.

## SOURCE

BNP (8D5B4C11) is a mouse monoclonal antibody raised against a synthetic peptide corresponding to amino acids 112-124 of BNP of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

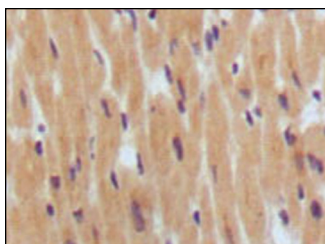
BNP (8D5B4C11) is recommended for detection of BNP of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for BNP siRNA (h): sc-43636, BNP shRNA Plasmid (h): sc-43636-SH and BNP shRNA (h) Lentiviral Particles: sc-43636-V.

Molecular Weight of glycosylated BNP precursor: 25-36 kDa.

Molecular Weight of deglycosylated mature BNP: 12 kDa.

## DATA



BNP (8D5B4C11): sc-101418. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human normal myocardium tissue showing cytoplasmic localization.

## SELECT PRODUCT CITATIONS

- Jing, L., Li, S., Wang, J. and Zhang, G. 2019. Long non-coding RNA small nucleolar RNA host gene 7 facilitates cardiac hypertrophy via stabilization of SDA1 domain containing 1 mRNA. *J. Cell. Biochem.* 120: 15089-15097.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.