

# **BNP Antibody**

Rabbit mAb Catalog # AP91372

### **Product Information**

ApplicationWBPrimary AccessionP16860ReactivityHumanClonalityMonoclonal

Other Names Brain natriuretic peptide 32; Natriuretic peptide B; Natriuretic peptides B;

natriuretic protein; NPPB;

IsotypeRabbit IgGHostRabbitCalculated MW14726

#### **Additional Information**

**Dilution** WB 1:1000~1:5000 **Purification** Affinity-chromatography

**Immunogen** A synthesized peptide derived from human BNP

**Description** Brain natriuretic peptide (BNP) circulates in blood as a peptide hormone with

natriuretic, vasodilatory and renin inhibitory properties. BNP is secreted predominantly by the left ventricular myocytes in response to volume

expansion and pressure overload.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

#### **Protein Information**

Name NPPB

**Function** [Brain natriuretic peptide 32]: Cardiac hormone that plays a key role in

mediating cardio-renal homeostasis (PubMed:<u>1672777</u>, PubMed:<u>17372040</u>, PubMed:<u>1914098</u>, PubMed:<u>9458824</u>). May also function as a paracrine antifibrotic factor in the heart (By similarity). Acts by specifically binding and stimulating NPR1 to produce cGMP, which in turn activates effector proteins that drive various biological responses (PubMed:<u>1672777</u>, PubMed:<u>17349887</u>,

PubMed: 17372040, PubMed: 21098034, PubMed: 25339504,

PubMed: 9458824). Involved in regulating the extracellular fluid volume and maintaining the fluid- electrolyte balance through natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion

(PubMed:1914098, PubMed:9458824). Binds the clearance receptor NPR3

(PubMed: 16870210).

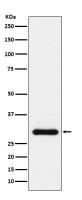
**Cellular Location** [NT-proBNP]: Secreted Note=Detected in blood. [Brain natriuretic peptide 32]:

Secreted. Note=Detected in blood.

## **Tissue Location**

[Brain natriuretic peptide 32]: Detected in the cardiac atria (at protein level) (PubMed:2136732, PubMed:2138890) Detected in the kidney distal tubular cells (at protein level) (PubMed:9794555).

# **Images**



Western blot analysis of BNP expression in human plasma lysate.

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