

Rabbit Anti-BNP antibody

SL0044R

Product Name BNP

Chinese Name 脑钠素/利钠肽抗体

Alias BNP 32; Brain natriuretic peptide 32; Gamma brain natriuretic peptide; Natriuretic peptide brain type; Natriuretic peptide precursor B; Natriuretic peptides B; NPPB; NPPB protein; ANFB_HUMAN; Natriuretic peptides B.proBNP.

Research Area Cardiovascular Signal transduction Growth factors and hormones

Immunogen Species Rabbit

Clonality Polyclonal

React Species Mouse, Rat, (predicted: Human,)

Applications IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 3.5kDa

Cellular localization Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human BNP 32: 103-120/134

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

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. BNP belongs to a family of structurally similar peptide hormones, which includes atrial natriuretic peptide (ANP), BNP, C-type natriuretic peptide (CNP) and urodilatin. These peptides are characterized by a common 17 amino acid ring structure with a disulfide bond between two cystein residues. This ring structure shows high homology between different natriuretic peptides (eleven of the 17 amino acid residues are homologous in the ring of each of the natriuretic peptides). BNP is a 32 amino acid peptide with disulfide bond between the cysteine residues Cys10 and Cys26. In earlier studies it has been demonstrated that BNP concentration in blood increases with the severity of congestive heart failure. Quantitative measurement of BNP in blood provides an objective indicator of congestive heart failure severity

**Product
Detail**

Function:

Cardiac hormone which may function as a paracrine antifibrotic factor in the heart. Also plays a key role in cardiovascular homeostasis through natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. Specifically binds and stimulates the cGMP production of the NPR1 receptor. Binds the clearance receptor NPR3.

Subcellular Location:

Secreted.

Tissue Specificity:

Brain and also in atria, but at much lower levels than ANP.

Similarity:

Belongs to the natriuretic peptide family.

SWISS:

P16860

Gene ID:

4879

Database links:

[Entrez Gene: 4879](#) Human

[Omim: 600295](#) Human

[SwissProt: P16860](#) Human

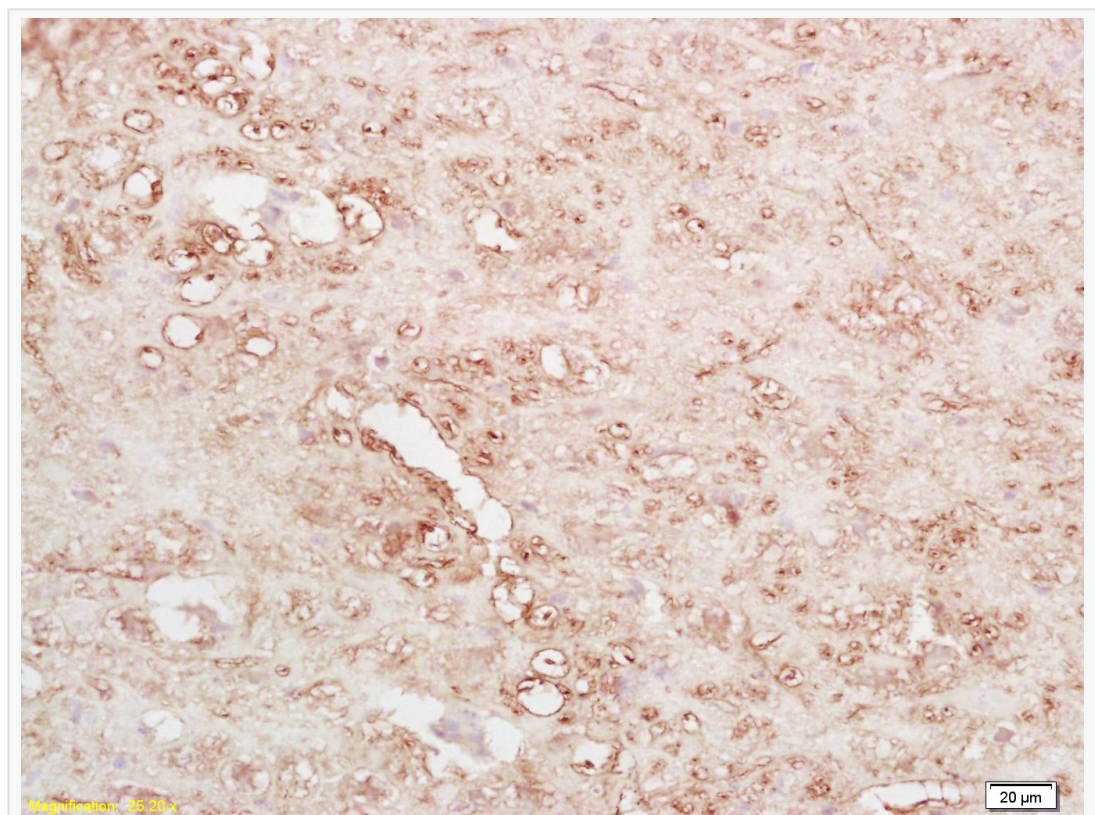
[Unigene: 219140](#) Human

脑钠素主要是心脏激素，心脏作为内分泌器官释放脑钠素，调解体液及电解质内环境的恒定性。

B型利钠肽（钠尿肽）（B-type natriuretic peptide, BNP），又称脑钠素或脑钠肽，因其有排钠利尿、内皮非依赖性的血管平滑肌作用而具有降压、抗心肌纤维化、影响神经内分泌系统等功效。

近来发现 BNP 在各种 Cardiovascular 疾病，尤其是心室功能不全、急性心肌梗死（ami）、高血压等疾病的诊断、治疗及预后等方面有重要意义，已引起临床工作者的高度重视。

Product Picture

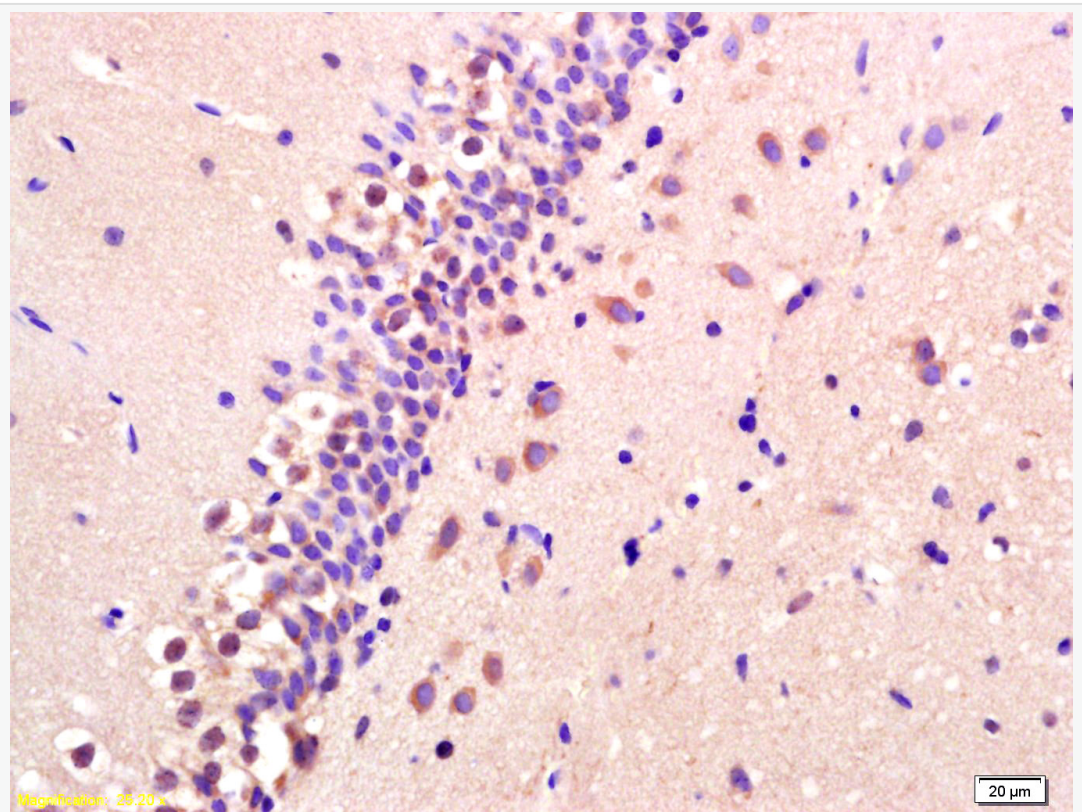


Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block

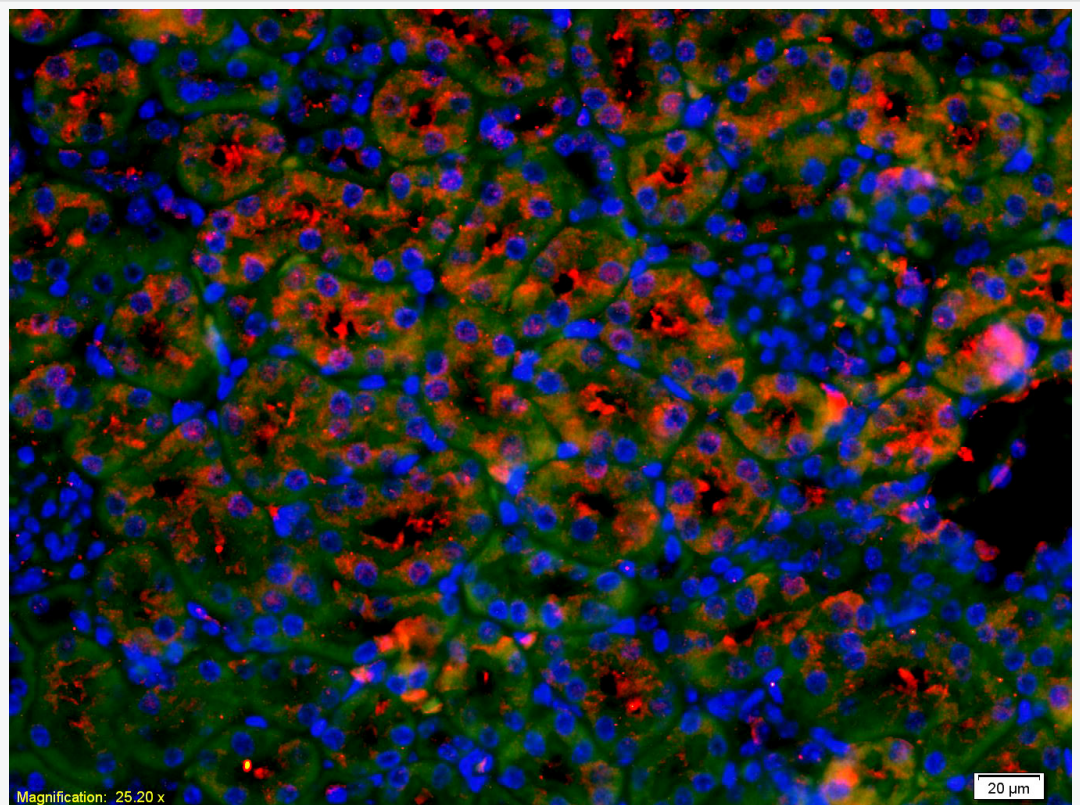
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-BNP Polyclonal Antibody, Unconjugated(SL0044R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-BNP Polyclonal Antibody, Unconjugated(SL0044R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: mouse kidney tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-BNP Polyclonal Antibody, Unconjugated(SL0044R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3



conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei