

For Research Use Only

# BNP Polyclonal antibody

Catalog Number: 13299-1-AP **10 Publications**



## Basic Information

<b>Catalog Number:</b> 13299-1-AP	<b>GenBank Accession Number:</b> BC025785	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 550 µg/ml	<b>GeneID (NCBI):</b> 4879	<b>Recommended Dilutions:</b> IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P16860	
<b>Isotype:</b> IgG	<b>Full Name:</b> natriuretic peptide precursor B	
<b>Immunogen Catalog Number:</b> AG4039	<b>Calculated MW:</b> 134 aa, 15 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IF-P, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC	<b>IHC :</b> mouse brain tissue, human brain tissue, human heart tissue, rat brain tissue
<b>Species Specificity:</b> human, rat, mouse	<b>IF :</b> rat brain tissue, HepG2 cells
<b>Cited Species:</b> human, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

NPPB, also known as B-type natriuretic peptide (BNP), is a cardiac hormone that is secreted mainly in the ventricles in response to increased wall stress. The protein undergoes two cleavage events, one within the cell and a second after secretion into the blood. The protein's biological actions include natriuresis, diuresis, vasorelaxation, inhibition of renin and aldosterone secretion, and a key role in cardiovascular homeostasis. BNP is a marker of systolic and diastolic dysfunction and a strong predictor of mortality in heart failure patients.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuxiang Wang	35881904	J Cardiovasc Pharmacol	
Yu-Hui Gu	36386139	Front Pharmacol	IHC
Yue Cui	34607503	Pharm Biol	

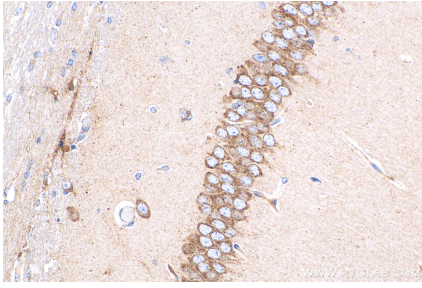
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

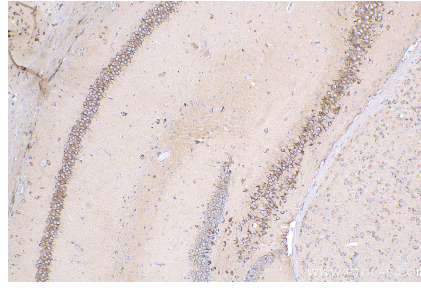
For technical support and original validation data for this product please contact:  
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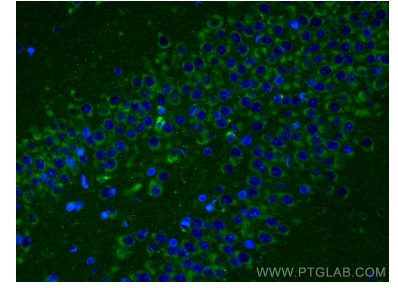
## Selected Validation Data



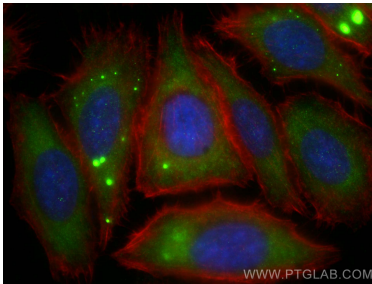
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13299-1-AP (BNP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13299-1-AP (BNP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using BNP antibody (13299-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using BNP antibody (13299-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).