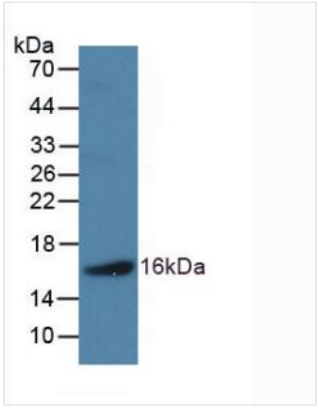
Natriuretic Peptide Precursor B (NPPB) Antibody – Rabbit Polyclonal

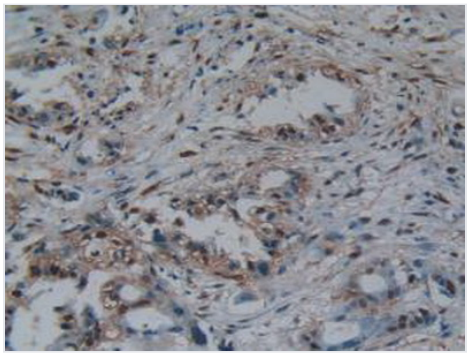
PRODUCT OVERVIEW

Product Name	Natriuretic Peptide Precursor B (NPPB), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Natriuretic Peptide Precursor B (NPPB)
Product Gene Name	anti-NPPB antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat, Pig
Form/Format	Liquid
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	500ug/mL (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against NPPB. It has been selected for its ability to recognize NPPB in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: Natriuretic Peptide Precursor B (NPPB) (MBS2090474) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Natriuretic Peptide Precursor B (NPPB) (MBS2090474) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
Matching Pairs	Unconjugated Antibody: NPPB (MBS2090474) Immunogen: NPPB (MBS2097529)
Matching Pairs	Unconjugated Antibody: NPPB (MBS2090474) APC-CY7 Conjugated Antibody: NPPB (MBS2107083)
Matching Pairs	Unconjugated Antibody: NPPB (MBS2090474) PE Conjugated Antibody: NPPB (MBS2107084)
Matching Pairs	Unconjugated Antibody: NPPB (MBS2090474) APC Conjugated Antibody: NPPB (MBS2107085)
Matching Pairs	Unconjugated Antibody: NPPB (MBS2090474) Cy3 Conjugated Antibody: NPPB (MBS2107086)
Matching Pairs	Unconjugated Antibody: NPPB (MBS2090474) Biotin Conjugated Antibody: NPPB (MBS2107087)
Matching Pairs	Unconjugated Antibody: NPPB (MBS2090474) FITC Conjugated Antibody: NPPB (MBS2107088)
Matching Pairs	Unconjugated Antibody: NPPB (MBS2090474) HRP Conjugated Antibody: NPPB (MBS2107089)
Molecular Weight	14,726 Da
OMIM	M31776 Genomic DNA

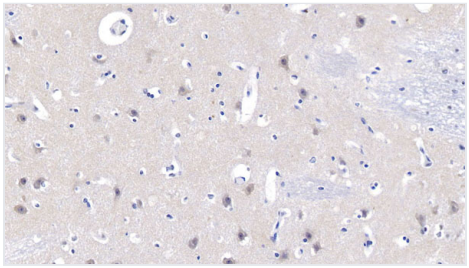
3D Structure	ModBase 3D Structure for P16860
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Buffer Formulation	0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Cross Reactivity	Human
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-NPPB antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-NPPB antibody	Western Blot: 0.5-2ug/mL Immunocytochemistry in formalin fixed cells: 5-20ug/mL Immunohistochemistry in formalin fixed frozen section: 5-20ug/mL Immunohistochemistry in paraffin section: 5-20ug/mL
Related Product Information for anti-NPPB antibody	MBS2090474 is an antibody targeting NPPB. Also known as Polyclonal Antibody to Natriuretic Peptide Precursor B (NPPB). Reactive in Human, Rat, Pig. Host: Rabbit.
Other Notes	Small volumes of anti-NPPB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



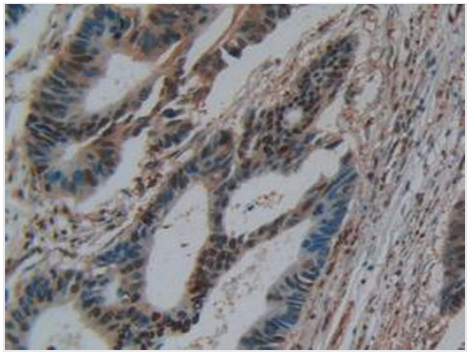
Western Blot (WB) of anti-NPPB antibody
Western Blot: Sample: Recombinant NPPB, Human.



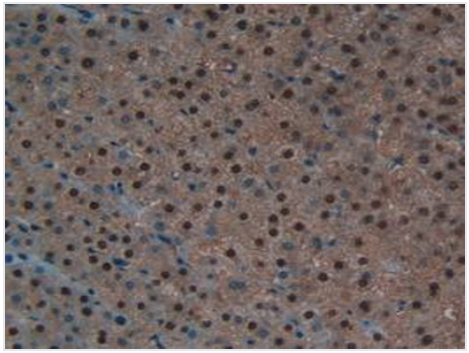
Immunohistochemistry (IHC) of anti-NPPB antibody
DAB staining on IHC-P; Samples: Human Breast Cancer Tissue



Immunohistochemistry (IHC) of anti-NPPB antibody
DAB staining on IHC-P; Samples: Human Brain Tissue.



Immunohistochemistry (IHC) of anti-NPPB antibody
DAB staining on IHC-P; Samples: Human Esophagus Cancer Tissue.



Immunohistochemistry (IHC) of anti-NPPB antibody
DAB staining on IHC-P; Samples: Human Liver Tissue.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPPB. It may not necessarily be applicable to this product.

NCBI GI #	4505433
NCBI GeneID	4879
NCBI Accession #	NP_002512.1
UniProt Primary Accession #	P16860
UniProt Secondary Accession #	Q6FGY0; Q9P2Q7; B0ZBE9
UniProt Related Accession #	P16860
GenBank Nucleotide #	NM_002521.2
NCBI Official Full Name	natriuretic peptides B preproprotein
NCBI Official Synonym Full Names	natriuretic peptide B
NCBI Official Symbol	NPPB
NCBI Official Synonym Symbols	BNP
UniProt Protein Name	Natriuretic peptides B
UniProt Synonym Protein Names	Gamma-brain natriuretic peptide
Protein Family	Brain natriuretic peptide
UniProt Gene Name	NPPB
UniProt Synonym Gene Names	BNP(1-32); BNP-32
NCBI Protein Information	natriuretic peptides B
NCBI Summary for NPPB	This gene is a member of the natriuretic peptide family and encodes a secreted protein which functions as a cardiac hormone. 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. A high concentration of this protein in the bloodstream is indicative of heart failure. The protein also acts as an antimicrobial peptide with antibacterial and antifungal activity. Mutations in this gene have been associated with postmenopausal osteoporosis. [provided by RefSeq, Nov 2014]

UniProt Comments for NPPB	NPPB: 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. Belongs to the natriuretic peptide family. Protein type: Hormone; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1p36.22 Cellular Component: extracellular region; extracellular space; nucleus; perinuclear region of cytoplasm; protein complex Molecular Function: diuretic hormone activity; hormone activity; peptide hormone receptor binding; protein binding; receptor binding Biological Process: body fluid secretion; cell surface receptor signaling pathway; cGMP biosynthetic process; inflammatory response; negative regulation of angiogenesis; negative regulation of cell growth; negative regulation of smooth muscle cell proliferation; negative regulation of systemic arterial blood pressure; protein folding; receptor guanylyl cyclase signaling pathway; regulation of blood pressure; regulation of vascular permeability; response to calcium ion; response to drug; response to hypoxia; response to lipopolysaccharide; response to organic cyclic compound; response to peptide hormone
Research Articles on NPPB	**1.** An exercise-associated increase in hs-cTnT and NT-proBNP occurred in response to a 60-minute maximal swimming test that was independent of pubertal status/adolescent vs adults. The present data also suggests that baseline and postexercise hs-cTnT values are higher in male compared with female, with no sex differences in NT-proBNP values.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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