Natriuretic Peptide Precursor B (NPPB) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Natriuretic Peptide Precursor B (NPPB), Polyclonal Antibody
Full Product Name	APC-Linked Polyclonal Antibody to Natriuretic Peptide Precursor B (NPPB)
Product Gene Name	anti-NPPB antibody
Product Synonym Names	GC-B; NPPB; B-Type Natriuretic Peptide; Natriuretic Peptide Precursor B; Gamma-brain natriuretic peptide; Brain natriuretic peptide 32
Immunogen Sequence	NPPB (Tyr27~Leu 121)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	>=100ug/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. Aliquot and store at -20 degree C for 12 months. 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: NPPB (MBS2090423) APC Conjugated Antibody: NPPB (MBS2107100)
Matching Pairs	APC Conjugated Antibody: NPPB (MBS2107100) Immunogen: NPPB (MBS2090443)
3D Structure	ModBase 3D Structure for P40753
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	APC
Cross Reactivity	Mouse
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)
Related Product Information for anti-NPPB antibody	MBS2107100 is an antibody targeting NPPB. Also known as APC-Linked Polyclonal Antibody to Natriuretic Peptide Precursor B (NPPB). Reactive in Mouse. 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.

ADDITIONAL DETAILS

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

NCBI GI #	565671787
NCBI GeneID	18158
NCBI Accession #	NP_001274277.1
UniProt Primary Accession #	P40753
UniProt Related Accession #	P40753
GenBank Nucleotide #	NM_001287348.1
NCBI Official Full Name	natriuretic peptides B isoform 2 preproprotein
NCBI Official Synonym Full Names	natriuretic peptide type B
NCBI Official Symbol	Nppb
NCBI Official Synonym Symbols	BNF; BNP; AA408272
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
NCBI Protein Information	natriuretic peptides B
NCBI Summary for NPPB	This gene encodes a secreted protein that belongs to the family of natriuretic peptides. Its precursor protein is processed to generate the active mature peptide. The mature peptide is a cardiac hormone that plays a role in ventricular remodeling as well as blood pressure regulation. Mice lacking this gene exhibit cardiac fibrosis. In humans this gene is associated with congestive heart failure, low bone-mineral density and postmenopausal osteoporosis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2013]
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: 4 E2|4 78.57 cM Cellular Component: cytoplasm; extracellular region; extracellular space; nucleus; perinuclear region of cytoplasm; protein complex Molecular Function: hormone activity; peptide hormone receptor binding Biological Process: cardiac muscle hypertrophy in response to stress; cGMP biosynthetic process; negative regulation of cell growth; negative regulation of smooth muscle cell proliferation; negative regulation of systemic arterial blood pressure; regulation of blood vessel size
Research Articles on NPPB	**1.** Atopic dermatitis linked cytokine interleukin-31 induced itch is mediated via a NPPB pathway.
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