NPPB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NPPB, Polyclonal Antibody
Full Product Name	NPPB (Natriuretic Peptides B, Gamma-brain Natriuretic Peptide) (MaxLight 490)
Product Gene Name	anti-NPPB antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NPPB.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to r
Molecular Weight	14,726 Da
OMIM	600295
3D Structure	ModBase 3D Structure for P16860
Immunogen	Full length human NPPB, aa1-134 (NP_002512.1).
Immunogen Sequence	MDPQTAPSRALLLLLFLHLAFLGGRSHPLGSPGSASDLETSGLQEQRNHLQGKLSELQVEQTSLEPLQESPRPTGVWKSREVATEGIRGHRKMVLYTLR/
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-NPPB antibody	Antibodies; Hormones; Steroids
Applications Tested/Suitable for anti-NPPB antibody	Western Blot (WB)
Application Notes for anti-NPPB antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NPPB antibody	In cardiac tissue brain natriuretic peptide (BNP) is synthesized as 134aa precursor (prepro-BNP), which is cleaved by proteases to form a 26aa "signal" of pro-BNP results in formation of 76aa amino-terminal NT-proBNP and biologically active 32aa BNP hormone molecule. Both proBNP and NTproBNP as markers for early identification of left ventricular dysfunction as well as prognostic markers of possible cardiac complications at patients with heart fa

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 necess 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.
Searchable Terms for NPPB purchase	MBS6387354 is an antibody targeting NPPB. Also known as NPPB (Natriuretic Peptides B, Gamma-brain Natriuretic Peptide) (MaxLight 490). Reactive

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
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
UniProt Entry Name	ANFB_HUMAN
NCBI Protein Information	natriuretic peptides B; natriuretic protein; brain type natriuretic peptide; gamma-brain natriuretic peptide; natriuretic peptide precursor 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. Mutations in this gene have been associated with postmenopausal osteoporosis. [provided by RefSeq, Jul 2008]

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: Secreted; Secreted, signal peptide; Hormone Chromosomal Location of Human Ortholog: 1p36.2 Cellular Component: extracellular space; protein complex; extracellular region Molecular Function: diuretic hormone activity; hormone activity; receptor binding Biological Process: cGMP biosynthetic process; negative regulation of angiogenesis; cell surface receptor linked signal transduction; regulation of vasodilation; regulation of blood pressure; receptor guanylyl cyclase signaling pathway; regulation of vascular permeability; negative regulation of cell growth; regulation of blood vessel size; body fluid secretion
Research Articles on NPPB	**1.** Serial evaluation of NT-proBNP levels can identify multiple sclerosis patients at high risk for mitoxantrone-induced cardiotoxicity.
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