NPR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Npr1, Polyclonal Antibody
Full Product Name	Npr1, NT (Npr1, Npra, Atrial natriuretic peptide receptor 1, Atrial natriuretic peptide receptor type A, Guanylate cyclase A) (MaxLight 490)
Product Gene Name	anti-Npr1 antibody
Product Synonym Names	Npr1; Npra; Atrial natriuretic peptide receptor 1; Atrial natriuretic peptide receptor type A; Guanylate cyclase A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
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.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	119,109 Da
3D Structure	ModBase 3D Structure for P18293
Immunogen	Mouse Npr1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 197-226 amino acids from the N-terminal region of human Mouse Npr1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-Npr1 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-Npr1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-Npr1 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-Npr1 antibody	Receptor for the atrial natriuretic peptide NPPA/ANP and the brain natriuretic peptide NPPB/BNP which are potent vasoactive hormones playing a key role in cardiovascular homeostasis. Has guanylate cyclase activity upon binding of the ligand.
Product References and Citations for anti-Npr1 antibody	Madhani, M., et al. Am. J. Physiol. Heart Circ. Physiol. 299 (3), H827-H836 (2010): Panayiotou, C.M., et al. Br. J. Pharmacol. 160(8):2045-2054(2010). Ropero, A.B., et al. Endocrinology 151(8):3665-3674(2010). Tankersley, C.G., et al. Inhal Toxicol 22(8):695-707(2010). Long, L., et al. Neuro Endocrinol. Lett. 31(1):126-130(2010).
Other Notes	Small volumes of anti-Npr1 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.

Searchable Terms for Npr1 purchase	MBS6326320 is an antibody targeting Npr1. Also known as Npr1, NT (Npr1, Npra, Atrial natriuretic peptide receptor 1, Atrial natriuretic peptide receptor type A, Guanylate cyclase A) (MaxLight 490). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Npr1. It may not necessarily be applicable to this product.

NCBI GI #	113930718
NCBI GeneID	18160
NCBI Accession #	NP_032753.5
UniProt Primary Accession #	P18293
GenBank Nucleotide #	NM_008727.5
NCBI Official Full Name	atrial natriuretic peptide receptor 1
UniProt Protein Name	Atrial natriuretic peptide receptor 1
UniProt Synonym Protein Names	Atrial natriuretic peptide receptor type A; ANP-A; ANPR-A; NPR-A; Guanylate cyclase A; GC-A
Protein Family	Atrial natriuretic peptide receptor
UniProt Gene Name	Npr1
UniProt Synonym Gene Names	Npra; ANP-A; ANPR-A; NPR-A; GC-A
UniProt Comments for Npr1	ANPA: natriuretic peptide receptor A, which mediates natriuretic, diuretic, and vasorelaxing actions of the natriuretic peptides. Contains five functional domains: an extracellular ligand-binding domain, a single membrane-spanning region, and intracellularly a protein kinase homology domain, a helical hinge region involved in oligomerization, and a carboxyl-terminal guanylyl cyclase catalytic domain. Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. Has guanylate cyclase activity on binding of ANF. Hypertensive SHR Rat has polymorphism at the locus. Human non-coding polymorphisms can alter expression up to two-fold, and have been associated with hypertension. A coding SNP is associated with hypertension and myocardial infarction. Protein type: EC 4.6.1.2; Guanylyl cyclase; Kinase, protein; Lyase; Membrane protein, integral; Nucleotide Metabolism - purine; Protein kinase, RGC; Protein kinase, dual-specificity (receptor); RGC family; RGC group; Receptor, misc. Chromosomal Location of Human Ortholog: 3 F1|3 39.23 cM Cellular Component: guanylate cyclase complex, soluble; plasma membrane; receptor complex Molecular Function: GTP binding; guanylate cyclase activity; hormone binding; natriuretic peptide receptor activity; peptide hormone binding; protein kinase binding Biological Process: cell surface receptor linked signal transduction; cGMP biosynthetic process; dopamine metabolic process; negative regulation of smooth muscle cell proliferation; positive regulation of cGMP biosynthetic process; receptor guanylyl cyclase signaling pathway; regulation of blood pressure
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