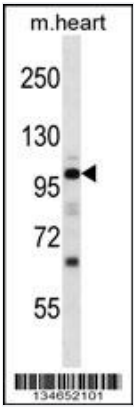
NPR1 Antibody – Rabbit Polyclonal

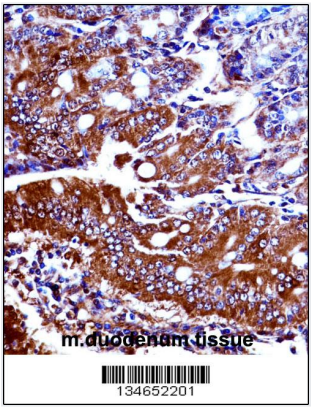
PRODUCT OVERVIEW

Product Name	Npr1, Polyclonal Antibody
Full Product Name	Mouse Npr1 Antibody (N-term)
Product Gene Name	anti-Npr1 antibody
Product Synonym Names	Atrial natriuretic peptide receptor 1; Atrial natriuretic peptide receptor type A; ANP-A; ANPR-A; NPR-A; Guanylate cyclase A; GC-A; Npr1; Npra
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This Mouse Npr1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 198-226 amino acids from the N-terminal region of mouse Npr1.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	Npr1 peptide (MBS9220437) is used for blocking the activity of Npr1 antibody (MBS9215125)
Molecular Weight	119109
Immunogen Sequence Positions	198-226
3D Structure	ModBase 3D Structure for P18293
Antigen Type	Synthetic Peptide
Antigen Source	MOUSE
Product Categories/Family for anti-Npr1 antibody	Cardiovascular; Signal Transduction
Applications Tested/Suitable for anti-Npr1 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-Npr1 antibody	WB~~1:1000
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	MBS9215125 is an antibody targeting Npr1. Also known as Mouse Npr1 Antibody (N-term). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Npr1 antibody
Mouse Npr1 Antibody (N-term) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the Npr1 antibody detected the Npr1 protein (arrow).



Immunohistochemistry (IHC) of anti-Npr1 antibody
Mouse Npr1 Antibody (N-term) (MBS9215125)immunohistochemistry analysis in formalin fixed and paraffin embedded mouse duodenum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Mouse Npr1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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
UniProt Related Accession #	P18293
GenBank Nucleotide #	NM_008727.5
NCBI Official Full Name	atrial natriuretic peptide receptor 1
NCBI Official Synonym Full Names	natriuretic peptide receptor 1
NCBI Official Symbol	Npr1
NCBI Official Synonym Symbols	GC-A; NPRA; Pndr; NPR-A; AI893888
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 Entry Name	ANPRA_MOUSE
NCBI Protein Information	atrial natriuretic peptide receptor 1

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: Lyase; Receptor, misc.; Membrane protein, integral; Kinase, protein; Protein kinase, RGC; Protein kinase, dual-specificity (receptor); Nucleotide Metabolism - purine; EC 4.6.1.2; Guanylyl cyclase; RGC group; RGC family Cellular Component: membrane; plasma membrane; integral to membrane; intracellular; receptor complex Molecular Function: guanylate cyclase activity; GTP binding; hormone binding; phosphorus-oxygen lyase activity; natriuretic peptide receptor activity; peptide hormone binding; transferase activity, transferring phosphorus-containing groups; nucleotide binding; lyase activity; protein kinase binding; ATP binding; protein kinase activity Biological Process: cGMP biosynthetic process; cyclic nucleotide biosynthetic process; cell surface receptor linked signal transduction; positive regulation of cGMP biosynthetic process; negative regulation of smooth muscle cell proliferation; receptor guanylyl cyclase signaling pathway; regulation of blood pressure; regulation of blood vessel size; protein amino acid phosphorylation; dopamine metabolic process
Research Articles on Npr1	**1.** these findings define a novel epigenetic regulatory mechanism that governs Npr1 gene transcription.
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