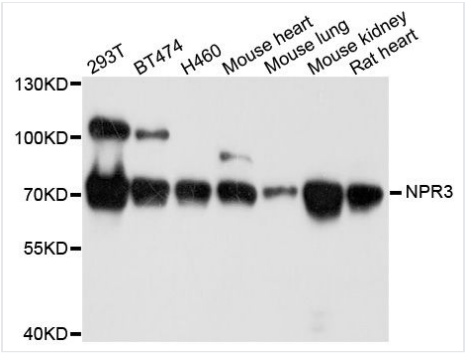
NPR3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NPR3, Polyclonal Antibody
Full Product Name	NPR3 Polyclonal Antibody
Product Gene Name	anti-NPR3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	60kDa
OMIM	108962
3D Structure	ModBase 3D Structure for P17342
Immunogen	Recombinant protein of human NPR3
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NPR3 antibody	Western Blot (WB)
Application Notes for anti-NPR3 antibody	WB 1:500 - 1:2000
Related Product Information for anti-NPR3 antibody	This gene encodes one of three natriuretic peptide receptors. Natriutetic peptides are small peptides which regulate blood volume and pressure, pulmonary hypertension, and cardiac function as well as some metabolic and growth processes. The product of this gene encodes a natriuretic peptide receptor responsible for clearing circulating and extracellular natriuretic peptides through endocytosis of the receptor. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-NPR3 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 NPR3 purchase	MBS9128672 is an antibody targeting NPR3. Also known as NPR3 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NPR3 antibody
Western blot analysis of extracts of various cell lines, using NPR3 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 3s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPR3. It may not necessarily be applicable to this product.

NCBI GI #	4505441
NCBI GeneID	4883
NCBI Accession #	NP_000899.1
UniProt Primary Accession #	P17342
UniProt Secondary Accession #	A2RRD1; B4DT84; E7EPG9
UniProt Related Accession #	P17342
GenBank Nucleotide #	NM_000908.3
NCBI Official Full Name	atrial natriuretic peptide receptor 3 isoform 2
NCBI Official Synonym Full Names	natriuretic peptide receptor 3
NCBI Official Symbol	NPR3
NCBI Official Synonym Symbols	NPRC; ANP-C; ANPRC; NPR-C; ANPR-C; GUCY2B; C5orf23
UniProt Protein Name	Atrial natriuretic peptide receptor 3
UniProt Synonym Protein Names	Atrial natriuretic peptide clearance receptor; Atrial natriuretic peptide receptor type C; ANP-C; ANPR-C; NPR-C
Protein Family	Atrial natriuretic peptide receptor
UniProt Gene Name	NPR3
UniProt Synonym Gene Names	ANPRC; C5orf23; NPRC; ANP-C; ANPR-C; NPR-C
UniProt Entry Name	ANPRC_HUMAN
NCBI Protein Information	atrial natriuretic peptide receptor 3

UniProt Comments for NPR3	ANP-C: Receptor for the natriuretic peptide hormones, binding with similar affinities atrial natriuretic peptide NPPA/ANP, brain natriuretic peptide NPPB/BNP, and C-type natriuretic peptide NPPC/CNP. May function as a clearance receptor for NPPA, NPPB and NPPC, regulating their local concentrations and effects. May regulate diuresis, blood pressure and skeletal development. Does not have guanylate cyclase activity. Belongs to the ANF receptor family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, GPCR; Membrane protein, integral Chromosomal Location of Human Ortholog: 5p13.3 Cellular Component: integral to plasma membrane Molecular Function: protein homodimerization activity; hormone binding; natriuretic peptide receptor activity; peptide hormone binding; peptide receptor activity, G-protein coupled Biological Process: regulation of osteoblast proliferation; phosphoinositide-mediated signaling; negative regulation of smooth muscle cell proliferation; positive regulation of nitric-oxide synthase activity; regulation of blood pressure; negative regulation of adenylate cyclase activity; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); G-protein signaling, adenylate cyclase inhibiting pathway; pancreatic juice secretion; skeletal development
Research Articles on NPR3	**1.** Data show that natriuretic peptide receptor 3 (NPR3) single nucleotide polymorphism (SNP) is independently associated with diastolic dysfunction and does not appear to be related to alterations in circulating levels of natriuretic peptides.
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