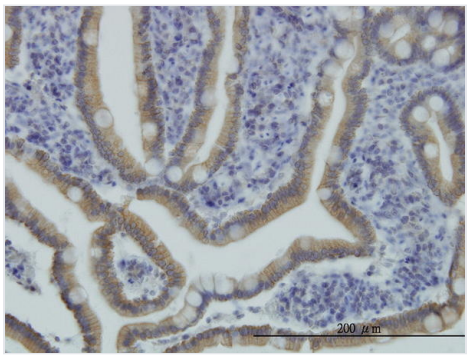
NPR2 Antibody – Mouse Monoclonal

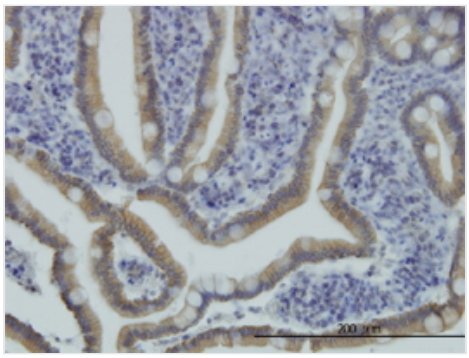
PRODUCT OVERVIEW

Product Name	NPR2, Monoclonal Antibody
Full Product Name	NPR2 (Natriuretic Peptide Receptor B/Guanylate Cyclase B (atrionatriuretic peptide Receptor B), AMDM, ANPRB, GUC2B, GUCY2B, NPRB, NPRBi) (Biotin)
Product Gene Name	anti-NPR2 antibody
Product Synonym Names	Natriuretic Peptide Receptor B/Guanylate Cyclase B (atrionatriuretic peptide Receptor B); AMDM; ANPRB; GUC2B; GUCY2B; NPRB; NPRBi
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	10000
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified
Specificity	Recognizes NPR2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	111,208 Da
3D Structure	ModBase 3D Structure for P20594
Immunogen	NPR2 (NP_003986.2, 131aa-230aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	AKNDHYRTLVRTGPSAPKLGEFVVTLHGHFNWTARAALLYLDARTDDRPHYFTIEGVFEALQGSNLSVQHQVYAREPGGPEQATHFIRANGRIVYICGPL
Conjugate	Biotin
Product Categories/Family for anti-NPR2 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-NPR2 antibody	Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-NPR2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NPR2 antibody	MBS6170901 is an antibody targeting NPR2. Also known as NPR2 (Natriuretic Peptide Receptor B/Guanylate Cyclase B (atrionatriuretic peptide Receptor B), AMDM, ANPRB, GUC2B, GUCY2B, NPRB, NPRBi) (Biotin). Host: Mouse.

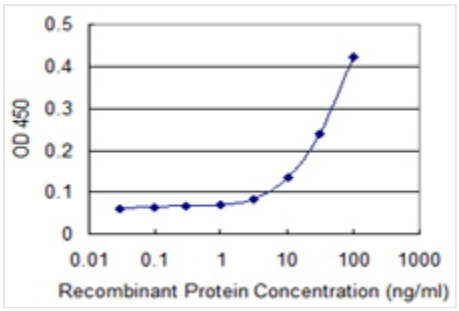
Other Notes	Small volumes of anti-NPR2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-NPR2 antibody
Immunoperoxidase of monoclonal antibody to NPR2 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 1 ug/ml]



Immunohistochemistry (IHC) of anti-NPR2 antibody
Immunoperoxidase of monoclonal antibody to NPR2 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 1 ug/ml]



Testing Data of anti-NPR2 antibody
Detection limit for recombinant GST tagged NPR2 is 3 ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPR2. It may not necessarily be applicable to this product.

NCBI GI #	4580422
NCBI GeneID	4882
NCBI Accession #	NP_003986.2
UniProt Primary Accession #	P20594
UniProt Secondary Accession #	O60871; Q4VAK7; Q5TCV2; Q8TA93; Q9UQ50; B0ZBF2; B0ZBF3; D3DRP3; D3DRP4
UniProt Related Accession #	P20594
GenBank Nucleotide #	NM_003995.3
NCBI Official Full Name	atrial natriuretic peptide receptor 2
NCBI Official Synonym Full Names	natriuretic peptide receptor 2
NCBI Official Symbol	NPR2
NCBI Official Synonym Symbols	AMDM; ANPb; ECDM; NPRB; SNSK; ANPRB; GUC2B; NPRBi; GUCY2B
UniProt Protein Name	Atrial natriuretic peptide receptor 2
UniProt Synonym Protein Names	Atrial natriuretic peptide receptor type B; ANP-B; ANPR-B; NPR-B; Guanylate cyclase B; GC-B
Protein Family	Atrial natriuretic peptide receptor
UniProt Gene Name	NPR2

UniProt Synonym Gene Names	ANPRB; ANP-B; ANPR-B; NPR-B; GC-B
NCBI Protein Information	atrial natriuretic peptide receptor 2
NCBI Summary for NPR2	This gene encodes natriuretic peptide receptor B, one of two integral membrane receptors for natriuretic peptides. Both NPR1 and NPR2 contain 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. The protein is the primary receptor for C-type natriuretic peptide (CNP), which upon ligand binding exhibits greatly increased guanylyl cyclase activity. Mutations in this gene are the cause of acromesomelic dysplasia Maroteaux type. [provided by RefSeq, Jul 2008]
UniProt Comments for NPR2	Receptor for the C-type natriuretic peptide NPPC/CNP hormone. Has guanylate cyclase activity upon binding of its ligand. May play a role in the regulation of skeletal growth.
Research Articles on NPR2	**1.** These results of the distinct presence of NPRA and NPRBpositive cells in unstable plaques underlying acute myocardial infarction suggested that natriuretic peptides serve a role in regulating plaque instability in humans.
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