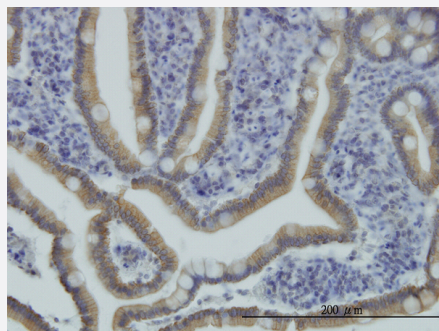


NPR2 monoclonal antibody (M02), clone 1E4

Catalog # H00004882-M02

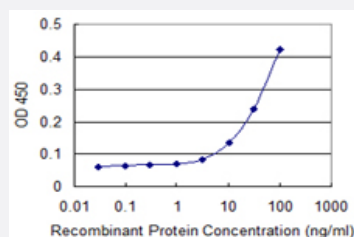
Size 100 ug

Applications



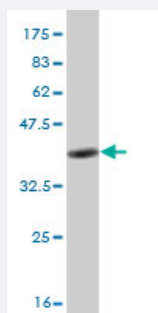
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NPR2 is 3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant NPR2.

Immunogen	NPR2 (NP_003986.2, 131 a.a. ~ 230 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	AKNDHYRTLVRTGPSAPKLGEFVVTLHGHNWTARAALLYLDARTDDRPHTIEGVFEALQGSN LSVQHQQVYAREPGGPEQATHFIRANGRIVYICGPL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (98)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NPR2 is 3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — NPR2

Entrez GeneID

[4882](#)

GeneBank Accession#	NM_003995.3
Protein Accession#	NP_003986.2
Gene Name	NPR2
Gene Alias	AMDM, ANPRB, GUC2B, GUCY2B, NPRB, NPRBi
Gene Description	natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B)
Omim ID	108961 602875
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	OTTHUMP00000021345 OTTHUMP00000045390 atrial natriuretic peptide B-type receptor guanylate cyclase B natriuretic peptide receptor B

Pathway

- [Purine metabolism](#)
- [Vascular smooth muscle contraction](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Mental Disorders](#)
- [Myocardial Infarction](#)

- [Ventricular Dysfunction](#)