CD13 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD13, Monoclonal Antibody
Full Product Name	CD13 (Myeloid Cells, Aminopeptidase N) (MaxLight 405)
Product Gene Name	anti-CD13 antibody
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	3H1010
Host	Rat
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight405.
Purity/Purification	Purified by Protein G Affinity Chromatography
Specificity	Recognizes mouse APN.
Preparation and Storage	Store at 4 degree C. Do Not Freeze.
Molecular Weight	109,651 Da
3D Structure	ModBase 3D Structure for P97449
Immunogen	Mouse intestinal APN
Conjugate	MaxLight405
Product Categories/Family for anti-CD13 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD13 antibody	Flow Cytometry (FC/FACS), Immunohistochemistry (IHC)
Related Product Information for anti-CD13 antibody	MBS6252372 is an antibody targeting CD13. Also known as CD13 (Myeloid Cells, Aminopeptidase N) (MaxLight 405). Reactive in Mouse. Host: Rat.
Product References and Citations for anti-CD13 antibody	1. Hansen, A.S., et al., Eur. J. Immunol. 23: 2358-2364 (1993). 2. Larsen, S.L., et al., J. Exp. Med. 184: 183-189 (1996). 3. Kamoun, W.S., et al., J. Clin. Oncol. 27: 2542-2552 (2009).
Other Notes	Small volumes of anti-CD13 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD13. It may not necessarily be applicable to this product.

NCBI GI #	31077182
NCBI GeneID	16790
NCBI Accession #	P97449.4
UniProt Primary Accession #	P97449

UniProt Secondary Accession #	Q91YH8; Q99K63
UniProt Related Accession #	P97449
NCBI Official Full Name	Aminopeptidase N
NCBI Official Synonym Full Names	alanyl (membrane) aminopeptidase
NCBI Official Symbol	Anpep
NCBI Official Synonym Symbols	Apn; AP-M; AP-N; Cd13; P150
UniProt Protein Name	Aminopeptidase N
UniProt Synonym Protein Names	Alanyl aminopeptidase; Aminopeptidase M; AP-M; Membrane protein p161; Microsomal aminopeptidase; CD_antigen: CD13
UniProt Gene Name	Anpep
UniProt Synonym Gene Names	Lap-1; Lap1; AP-N; mAPN; AP-M
UniProt Entry Name	AMPN_MOUSE
NCBI Protein Information	aminopeptidase N; aminopeptidase M; alanyl aminopeptidase; aminopeptidase N/CD13; membrane protein p161; microsomal aminopeptidase
UniProt Comments for CD13	CD13: Broad specificity aminopeptidase. Plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. May play a critical role in the pathogenesis of cholesterol gallstone disease. May be involved in the metabolism of regulatory peptides of diverse cell types including small intestinal and tubular epithelial cells, macrophages, granulocytes and synaptic membranes from the CNS. Found to cleave antigen peptides bound to major histocompatibility complex class II molecules of presenting cells and to degrade neurotransmitters at synaptic junctions. Is also implicated as a regulator of IL-8 bioavailability in the endometrium, and therefore may contribute to the regulation of angiogenesis. Is used as a marker for acute myeloid leukemia and plays a role in tumor invasion. In case of human coronavirus 229E (HCoV-229E) infection, serves as receptor for HCoV-229E spike glycoprotein. Mediates as well human cytomegalovirus (HCMV) infection. Belongs to the peptidase M1 family. Protein type: EC 3.4.11.2; Protease; Receptor, misc.; Other Amino Acids Metabolism - glutathione; Membrane protein, integral Cellular Component: extracellular space; membrane; lysosomal membrane; integral to membrane; ER-Golgi intermediate compartment; vesicle membrane; external side of plasma membrane Molecular Function: peptidase activity; metallopeptidase activity; zinc ion binding; hydrolase activity; metal ion binding; aminopeptidase activity; peptide binding Biological Process: multicellular organismal development; aromatic compound metabolic process; angiogenesis; cell differentiation; proteolysis
Research Articles on CD13	**1.** Molecular mechanisms regulating CD13-mediated adhesion.
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