ENTPD2 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	ENTPD2, Blocking Peptide
Full Product Name	ENTPD2 Antibody (N-term) Blocking Peptide
Product Gene Name	ENTPD2 blocking peptide
Product Synonym Gene Name	CD39L1
Product Synonym Names	Ectonucleoside triphosphate diphosphohydrolase 2; NTPDase 2; 361-; CD39 antigen-like 1; Ecto-ATP diphosphohydrolase 2; Ecto-ATPDase 2; Ecto-ATPase 2; ENTPD2; CD39L1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	ENTPD2 peptide (MBS9228146) is used for blocking the activity of ENTPD2 antibody (MBS9203848)
Molecular Weight	48,535 Da
OMIM	602012
Cellular Location	Isoform Long: Cell membrane; Multi-pass membrane protein Isoform gamma: Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Brain, placenta, skeletal muscle, kidney, pancreas, heart, ovary, testis, colon, small intestine, prostate and pancreas. No expression in adult thymus, spleen, lung, liver and peripheral blood leukocytes
Related Product Information for ENTPD2 blocking peptide	In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Hydrolyzes ADP only to a marginal extent. The order of activity with different substrates is ATP > GTP > CTP = ITP > UTP >> ADP = UDP.
Other Notes	Small volumes of ENTPD2 blocking peptide 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 ENTPD2 purchase	MBS9228146 is a blocking peptide targeting ENTPD2. Also known as ENTPD2 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ENTPD2. It may not necessarily be applicable to this product.

NCBI GI #	18203633
NCBI GeneID	954
NCBI Accession #	Q9Y5L3.1
UniProt Primary Accession #	Q9Y5L3
UniProt Secondary Accession #	O15464; Q5SPY6; Q5SPY7
UniProt Related Accession #	Q9Y5L3
NCBI Official Full Name	Ectonucleoside triphosphate diphosphohydrolase 2
NCBI Official Synonym Full Names	ectonucleoside triphosphate diphosphohydrolase 2
NCBI Official Symbol	ENTPD2

NCBI Official Synonym Symbols	CD39L1; NTPDase-2
UniProt Protein Name	Ectonucleoside triphosphate diphosphohydrolase 2
UniProt Synonym Protein Names	CD39 antigen-like 1; Ecto-ATP diphosphohydrolase 2; Ecto-ATPDase 2; Ecto-ATPase 2
Protein Family	Ectonucleoside triphosphate diphosphohydrolase
UniProt Gene Name	ENTPD2
UniProt Synonym Gene Names	CD39L1; NTPDase 2; Ecto-ATPDase 2; Ecto-ATPase 2
UniProt Entry Name	ENTP2_HUMAN
NCBI Protein Information	ectonucleoside triphosphate diphosphohydrolase 2
NCBI Summary for ENTPD2	The protein encoded by this gene is the type 2 enzyme of the ecto-nucleoside triphosphate diphosphohydrolase family (E-NTPDase). E-NTPDases are a family of ecto-nucleosidases that hydrolyze 5'-triphosphates. This ecto-ATPase is an integral membrane protein. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2008]
UniProt Comments for ENTPD2	ENTPD2: In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Hydrolyzes ADP only to a marginal extent. The order of activity with different substrates is ATP > GTP > CTP = ITP > UTP >> ADP = UDP. Belongs to the GDA1/CD39 NTPase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 3.6.1.-; Nucleotide Metabolism - purine; Hydrolase; Extracellular matrix; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 9q34
Research Articles on ENTPD2	**1.** The role of cysteine 26 in the catalytic activity of NTPDase-2 and as the target of p-chloromercuriphenylsulfonate (pCMPS), a sulfhydryl reagent and NTPDase-2 inhibitor, is reported.
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