ENTPD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ENTPD1, Polyclonal Antibody
Full Product Name	ENTPD1 Conjugated Antibody
Product Gene Name	anti-ENTPD1 antibody
Product Synonym Names	CD39; SPG64; ATPDase; NTPDase-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total ENTPD1 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	56kDa
OMIM	601752
3D Structure	ModBase 3D Structure for P49961
Immunogen	Synthetic peptide of human ENTPD1
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-ENTPD1 antibody	Most Applications
Application Notes for anti-ENTPD1 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-ENTPD1 antibody	In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Could also be implicated in the prevention of platelet aggregation by hydrolyzing platelet-activating ADP to AMP. Hydrolyzes ATP and ADP equally well.
Other Notes	Small volumes of anti-ENTPD1 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 ENTPD1 purchase	MBS9451707 is an antibody targeting ENTPD1. Also known as ENTPD1 Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ENTPD1. It may not necessarily be applicable to this product.

NCBI GI #	45580700
NCBI GeneID	953
NCBI Accession #	NP_001767
UniProt Primary Accession #	P49961
UniProt Related Accession #	P49961
GenBank Nucleotide #	NM_001776
NCBI Official Full Name	ectonucleoside triphosphate diphosphohydrolase 1 isoform 1
NCBI Official Synonym Full Names	ectonucleoside triphosphate diphosphohydrolase 1
NCBI Official Symbol	ENTPD1
NCBI Official Synonym Symbols	CD39; SPG64; ATPDase; NTPDase-1
UniProt Protein Name	Ectonucleoside triphosphate diphosphohydrolase 1
UniProt Synonym Protein Names	Ecto-ATP diphosphohydrolase 1; Ecto-ATPDase 1; Ecto-ATPase 1; Ecto-apyrase; Lymphoid cell activation antigen
Protein Family	Ectonucleoside triphosphate diphosphohydrolase
UniProt Gene Name	ENTPD1
UniProt Synonym Gene Names	CD39; NTPDase 1; Ecto-ATPDase 1
UniProt Entry Name	ENTP1_HUMAN
NCBI Protein Information	ectonucleoside triphosphate diphosphohydrolase 1
NCBI Summary for ENTPD1	The protein encoded by this gene is a plasma membrane protein that hydrolyzes extracellular ATP and ADP to AMP. Inhibition of this protein's activity may confer anticancer benefits. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2015]
UniProt Comments for ENTPD1	ENTPD1: In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Could also be implicated in the prevention of platelet aggregation by hydrolyzing platelet-activating ADP to AMP. Hydrolyzes ATP and ADP equally well. Belongs to the GDA1/CD39 NTPase family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Nucleotide Metabolism - purine; EC 3.6.1.5; Extracellular matrix; Nucleotide Metabolism - pyrimidine; Membrane protein, multi-pass; Hydrolase Chromosomal Location of Human Ortholog: 10q24 Cellular Component: membrane; integral to plasma membrane; plasma membrane; basal lamina Molecular Function: protein binding; nucleoside-diphosphatase activity; nucleoside-triphosphatase activity; ATP binding Biological Process: platelet activation; G-protein coupled receptor protein signaling pathway; purine ribonucleoside diphosphate catabolic process; cell adhesion; blood coagulation Disease: Spastic Paraplegia 64, Autosomal Recessive
Research Articles on ENTPD1	**1.** Changes in the local expression and activity of CD39 and CD73 in calcified valves suggest their potential role in calcific aortic valve disease.
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