ENTPD5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ENTPD5, Polyclonal Antibody
Full Product Name	ENTPD5 Rabbit pAb
Product Gene Name	anti-ENTPD5 antibody
Product Synonym Names	PCPH; CD39L4; NTPDase-5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	pH7.4 PBS, 0.05% NaN3, 40% Glycerol
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C.
Molecular Weight	48kDa
OMIM	603162
3D Structure	ModBase 3D Structure for O75356
Immunogen	Fusion protein of human ENTPD5
Cellular Localization	Endoplasmic Reticulum, Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ENTPD5 antibody	Western Blot (WB)
Application Notes for anti-ENTPD5 antibody	WB: 200-1000
Related Product Information for anti-ENTPD5 antibody	The protein encoded by this gene is similar to E-type nucleotidases (NTPases)/ecto-ATPase/apyrases. NTPases, such as CD39, mediate catabolism of extracellular nucleotides. ENTPD5 contains 4 apyrase-conserved regions which is characteristic of NTPases.
Other Notes	Small volumes of anti-ENTPD5 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 ENTPD5 purchase	MBS8559611 is an antibody targeting ENTPD5. Also known as ENTPD5 Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ENTPD5. It may not necessarily be applicable to this product.

NCBI GI #	4557427
NCBI GeneID	957
NCBI Accession #	NP_001240.1

UniProt Primary Accession #	O75356
UniProt Related Accession #	O75356
GenBank Nucleotide #	NP_001240.1
NCBI Official Full Name	ectonucleoside triphosphate diphosphohydrolase 5 isoform 1
NCBI Official Synonym Full Names	ectonucleoside triphosphate diphosphohydrolase 5 (inactive)
NCBI Official Symbol	ENTPD5
NCBI Official Synonym Symbols	PCPH; CD39L4; NTPDase-5
UniProt Protein Name	Ectonucleoside triphosphate diphosphohydrolase 5
UniProt Synonym Protein Names	CD39 antigen-like 4; ER-UDPase; Guanosine-diphosphatase ENTPD5 (EC:3.6.1.42); GDPase ENTPD5; Nucleoside diphosphatase; Uridine-diphosphatase ENTPD5; UDPase ENTPD5
Protein Family	Ectonucleoside triphosphate diphosphohydrolase
UniProt Gene Name	ENTPD5
UniProt Synonym Gene Names	CD39L4; PCPH; NTPDase 5; GDPase ENTPD5; UDPase ENTPD5
UniProt Entry Name	ENTP5_HUMAN
NCBI Protein Information	ectonucleoside triphosphate diphosphohydrolase 5
UniProt Comments for ENTPD5	ENTPD5: Uridine diphosphatase (UDPase) that promotes protein N- glycosylation and ATP level regulation. UDP hydrolysis promotes protein N-glycosylation and folding in the endoplasmic reticulum, as well as elevated ATP consumption in the cytosol via an ATP hydrolysis cycle. Together with CMPK1 and AK1, constitutes an ATP hydrolysis cycle that converts ATP to AMP and results in a compensatory increase in aerobic glycolysis. Also hydrolyzes GDP and IDP but not any other nucleoside di-, mono- or triphosphates, nor thiamine pyrophosphate. Plays a key role in the AKT1-PTEN signaling pathway by promoting glycolysis in proliferating cells in response to phosphoinositide 3-kinase (PI3K) signaling. Belongs to the GDA1/CD39 NTPase family. Protein type: Nucleotide Metabolism - purine; EC 3.6.1.6; EC 3.6.1.42; Oncoprotein; Nucleotide Metabolism - pyrimidine; Hydrolase Chromosomal Location of Human Ortholog: 14q24 Cellular Component: endoplasmic reticulum Molecular Function: guanosine-diphosphatase activity; uridine-diphosphatase activity Biological Process: ATP metabolic process; cell proliferation; 'de novo' posttranslational protein folding; positive regulation of glycolysis; regulation of phosphoinositide 3-kinase cascade; protein amino acid N-linked glycosylation; cell growth
Research Articles on ENTPD5	**1.** ENTPD5 is a mediator of mutant p53 gain of function activity in clonogenic growth, architectural tissue remodeling, migration, invasion, and lung colonization in lung cancer and its mouse models
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