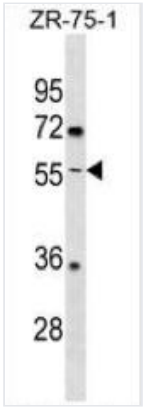
ENTPD5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ENTPD5, Polyclonal Antibody
Full Product Name	ENTPD5, CT (ENTPD5, CD39L4, PCPH, Ectonucleoside triphosphate diphosphohydrolase 5, CD39 antigen-like 4, ER-UDPase, Guanosine-diphosphatase ENTPD5, Nucleoside diphosphatase, Uridine-diphosphatase ENTPD5) (Azide free) (HRP)
Product Gene Name	anti-ENTPD5 antibody
Product Synonym Names	ENTPD5; CD39L4; PCPH; Ectonucleoside triphosphate diphosphohydrolase 5; CD39 antigen-like 4; ER-UDPase; Guanosine-diphosphatase ENTPD5; Nucleoside diphosphatase; Uridine-diphosphatase ENTPD5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ENTPD5.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	47,517 Da
OMIM	603162
3D Structure	ModBase 3D Structure for O75356
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 333-362 in the C-terminal region of human ENTPD5, UniProt Accession #NP_001240.1; O75356.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-ENTPD5 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-ENTPD5 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ENTPD5 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
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.
Product References and Citations for anti-ENTPD5 antibody	1. Fransen, K., et al. Hum. Mol. Genet. 19(17):3482-3488(2010). 2. Villar, J., et al. Cancer Res. 69(1):102-110(2009). 3. Villar, J., et al. Cancer Res. 67(22):10859-10868(2007). 4. Regadera, J., et al. Int. J. Oncol. 28(3):595-604(2006). 5. Liu, T., et al. J. Proteome Res. 4(6):2070-2080(2005).

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	MBS6295791 is an antibody targeting ENTPD5. Also known as ENTPD5, CT (ENTPD5, CD39L4, PCPH, Ectonucleoside triphosphate diphosphohydrolase 5, CD39 antigen-like 4, ER-UDPase, Guanosine-diphosphatase ENTPD5, Nucleoside diphosphatase, Uridine-diphosphatase ENTPD5) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ENTPD5 antibody
Western Blot analysis in ZR-75-1 cell line lysates (35ug/lane) usingMBS6013228. This demonstrates that MBS6013228 detected the ENTPD5 protein (arrow).

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 Secondary Accession #	Q96RX0; A1L4C5
UniProt Related Accession #	O75356
GenBank Nucleotide #	NM_001249.2
NCBI Official Full Name	ectonucleoside triphosphate diphosphohydrolase 5
NCBI Official Synonym Full Names	ectonucleoside triphosphate diphosphohydrolase 5
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; ER-UDPase; NTPDase 5; CD39-like 4; GDPase ENTPD5; UDPase ENTPD5; proto-oncogene CPH; CD39 antigen-like 4; nucleoside diphosphatase; Pcph proto-oncogene protein; uridine-diphosphatase ENTPD5; guanosine-diph
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.** These results strongly suggest that the mt-PCPH (ENTPD5)oncoprotein may regulate the cellular energy levels and subsequent chemoresistance by an NTPDase-independent mechanism
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