

Rabbit anti-Human ENTPD5 Polyclonal Antibody | anti-ENTPD5 antibody

Anti-ENTPD5 Antibody, Rabbit Polyclonal

CATALOG # AAA255339	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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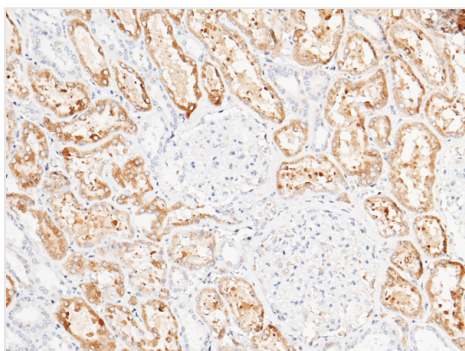
PRODUCT SYNONYMS

ENTPD5; Polyclonal Antibody; Anti-ENTPD5 Antibody; Rabbit Polyclonal; ENTPD5 Antibody; Rabbit PAb; Antigen Affinity Purified; ectonucleoside triphosphate diphosphohydrolase 5; Anti-CD39L4 Antibody; Anti-NTPDase-5 Antibody; Anti-PCPH Antibody; anti-ENTPD5 antibody

PRODUCT SPECIFICATIONS

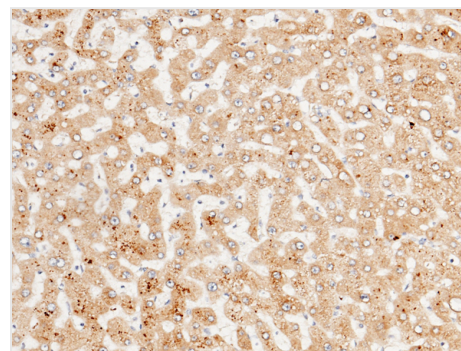
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human ENTPD5
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-ENTPD5 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human ENTPD5 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human ENTPD5 (rh ENTPD5). ENTPD5 specific IgG was purified by Human ENTPD5 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human ENTPD5 in human kidney with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human ENTPD5 in human liver with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). Positive staining was localized to hepatocyte.

ADDITIONAL INFORMATION

Related Product Information for anti-ENTPD5 antibody	Ectonucleoside triphosphate diphosphohydrolase 5 (ENTPD5), also known as CD39 antigen-like 4, ER-UDPase, Guanosine-diphosphatase ENTPD5, Nucleoside diphosphatase Uridine-diphosphatase ENTPD5. This hydrolase is expressed in response to phosphoinositide 3-kinase (PI3K) signaling. Activation of PI3K results in FOXO phosphorylation by AKT1 and loss of ENTPD5 transcriptional repression. It is Up-regulated in PTEN-deficient cells. Uridine diphosphatase (UDPase) that promotes protein N-glycosylation and ATP level regulation.ENTPD5 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, ENTPD5 constitutes an ATP hydrolysis cycle that converts ATP to AMP and results in a compensatory increase in aerobic glycolysis. ENTPD5 also hydrolyzes GDP and IDP but not any other nucleoside di-, mono-or triphosphates, nor thiamine pyrophosphate. This enzyme Plays a key role in the AKT1-PTEN signaling pathway by promoting glycolysis in proliferating cells in response to phosphoinositide 3-kinase (PI3K) signaling.
References	Villar J, et al. (2009) PCPH/ENTPD5 expression confers to prostate cancer cells resistance against cisplatin-induced apoptosis through protein kinase Calpha-mediated Bcl-2 stabilization. Cancer Res. 69(1): 102-10.Fang M, et al. (2010) The ER UDPase ENTPD5 promotes protein N-glycosylation, the Warburg effect, and proliferation in the PTEN pathway. Cell. 143(5): 711-24.Paez JG, et al. (2001) Identity between the PCPH proto-oncogene and the CD39L4 (ENTPD5) ectonucleoside triphosphate diphosphohydrolase gene. Int J Oncol. 19(6): 1249-54.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557427
NCBI GeneID	957
NCBI Accession #	NP_001240.1
NCBI GenBank Nucleotide #	NM_001249.2
UniProt Accession #	O75356; Q96RX0; A1L4C5
Molecular Weight	47,517 Da
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
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 Protein Name	Ectonucleoside triphosphate diphosphohydrolase 5
UniProt Gene Name	ENTPD5
UniProt Synonym Gene Names	CD39L4; PCPH; NTPDase 5; GDPase ENTPD5; UDPase ENTPD5
UniProt Entry Name	ENTP5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.