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ENTPD5 Antibody

Rabbit mAb
Catalog # AP92179

Product Information

Application	WB
Primary Accession	O75356
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	CD39L4; Entpd5; mNTPase; NTPDase 5; PCPH;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	47517

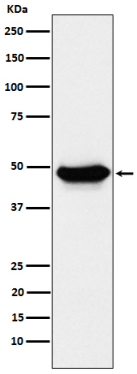
Additional Information

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ENTPD5
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	ENTPD5 (HGNC:3367)
Function	Hydrolyzes nucleoside diphosphates with a preference for GDP, IDP and UDP compared to ADP and CDP (PubMed:10400613, PubMed:15698960). In the lumen of the endoplasmic reticulum, hydrolyzes UDP that acts as an end-product feedback inhibitor of the UDP-Glc:glycoprotein glucosyltransferases. UMP can be transported back by an UDP-sugar antiporter to the cytosol where it is consumed to regenerate UDP- glucose. Therefore, it positively regulates protein reglucosylation by clearing UDP from the ER lumen and by promoting the regeneration of UDP-glucose. Protein reglucosylation is essential to proper glycoprotein folding and quality control in the ER (By similarity).
Cellular Location	Endoplasmic reticulum {ECO:0000250|UniProtKB:Q9WUZ9}. Secreted
Tissue Location	Expressed in adult liver, kidney, prostate, testis and colon. Much weaker expression in other tissues

Images



Western blot analysis of ENTPD5 expression in LnCaP cell lysate.