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CD39L4 Rabbit pAb

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Catalog # AP58461

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O75356
Predicted	Rat, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47517
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ENTPD5/CD39L4
Epitope Specificity	331-380/428
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane, Single-pass type II membrane protein
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	957
Other Names	Nucleoside diphosphate phosphatase ENTPD5, 3.6.1.6, CD39 antigen-like 4, ER-UDPase, Ectonucleoside triphosphate diphosphohydrolase 5 {ECO:0000312|HGNC:HGNC:3367}, NTPDase 5, Guanosine-diphosphatase ENTPD5, GDPase ENTPD5, Inosine diphosphate phosphatase ENTPD5, Nucleoside diphosphatase, Uridine-diphosphatase ENTPD5, UDPase ENTPD5, ENTPD5 (HGNC:3367)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.