

# ENTPD5 Antibody

Rabbit mAb

Catalog # AP92195

## Product Information

<b>Application</b>	WB, IHC, IP
<b>Primary Accession</b>	<a href="#">O75356</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	CD39L4; Entpd5; mNTPase; NTPDase 5; PCPH; UDPase ENTPD5;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	47517

## Additional Information

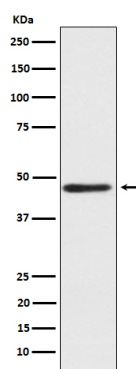
<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 IP 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human ENTPD5
<b>Description</b>	Uridine diphosphatase (UDPase) that promotes protein N-glycosylation and ATP level regulation. UDP hydrolysis promotes protein N-glycosylation and folding in the endoplasmic reticulum, as well as elevated ATP consumption in the cytosol via an ATP hydrolysis cycle.
<b>Storage Condition and Buffer</b>	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

<b>Name</b>	ENTPD5 ( <a href="#">HGNC:3367</a> )
<b>Function</b>	Hydrolyzes nucleoside diphosphates with a preference for GDP, IDP and UDP compared to ADP and CDP (PubMed: <a href="#">10400613</a> , PubMed: <a href="#">15698960</a> ). 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).
<b>Cellular Location</b>	Endoplasmic reticulum {ECO:0000250 UniProtKB:Q9WUZ9}. Secreted
<b>Tissue Location</b>	Expressed in adult liver, kidney, prostate, testis and colon. Much weaker expression in other tissues

## Images

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Western blot analysis of ENTPD5 expression in fetal liver lysate.

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