

**Product Name: ENTPD5 (18I11) Rabbit Monoclonal Antibody****Catalog #: AMRe10483**

For research use only.

**Summary**

<b>Description</b>	Recombinant rabbit monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	0.5mg/ml. The concentration of this product may be batch-dependent.
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:1000-1:5000,IHC 1:100-1:200
<b>Molecular Weight</b>	48kDa

**Antigen Information**

<b>Gene Name</b>	ENTPD5
<b>Alternative Names</b>	CD39L4; Entpd5; mNTPase; NTPDase 5; PCPH;
<b>Gene ID</b>	957.0
<b>SwissProt ID</b>	O75356
<b>Immunogen</b>	A synthetic peptide of human ENTPD5

**Background**

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

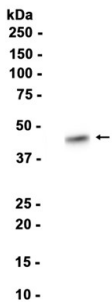
ATP hydrolysis cycle. Uridine diphosphatase (UDPase) that promotes protein N- glycosylation and ATP level regulation. UDP hydrolysis promotes protein N-glycosylation and folding in the endoplasmic reticulum, as well as elevated ATP consumption in the cytosol via an ATP hydrolysis cycle. Together with CMPK1 and AK1, constitutes an ATP hydrolysis cycle that converts ATP to AMP and results in a compensatory increase in aerobic glycolysis. The nucleotide hydrolyzing preference is GDP > IDP > UDP, 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.

## Research Area

## Image Data

Human fetal kidney

kDa  
250 -  
150 -  
100 -  
75 -  
50 -  
37 -  
25 -  
20 -  
15 -  
10 -



Western blot analysis of extracts from Human fetal kidney tissue using ENTPD5 (18I11) Rabbit Monoclonal Antibody at 1:1000.