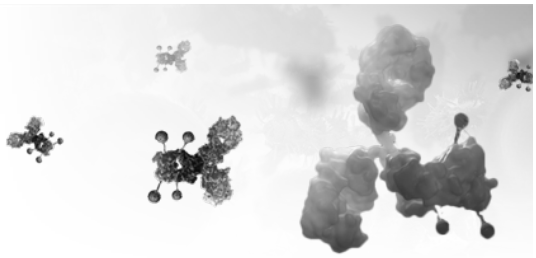

Rabbit Anti-Human ENTPD5 monoclonal antibody, clone S175 (CABT-ZB542)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	It reacts with Human ENTPD5
Target	ENTPD5
Immunogen	Recombinant Human ENTPD5 protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	S175
Purification	Protein A purified
Conjugate	Unconjugated
Applications	WB, ELISA(cap), IHC-P, IP We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB542 - CABT-ZB905 This antibody will detect ENTPD5 in antibody pair set. [ABPR-ZB118]
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human ENTPD5.
Format	Purified, Liquid
Concentration	Lot specific
Size	50 µL, 100 µL, 1 mL

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Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	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.
Keywords	ENTPD5; ectonucleoside triphosphate diphosphohydrolase 5; CD39L4, PCPH, proto oncogene CPH; NTPDase 5

GENE INFORMATION

Synonyms	ENTPD5; ectonucleoside triphosphate diphosphohydrolase 5; CD39L4, PCPH, proto oncogene CPH; NTPDase 5; ER-UDPase; CD39-like 4; GDPase ENTPD5; UDPase ENTPD5; proto-oncogene CPH; CD39 antigen-like 4
Entrez Gene ID	957
UniProt ID	O75356

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