

Anti-ENTPD5 Antibody (2A699)

Product Details

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|---------------|--------------|
| Ig Type: | Rabbit IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 2A699 |
| Purification: | Protein A |

Applications

1. Immunochemical staining of human ENTPD5 in human prostate with rabbit monoclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.
2. Immunochemical staining of human ENTPD5 in human liver with rabbit monoclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.
3. Immunochemical staining of human ENTPD5 in human kidney with rabbit monoclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.
4. Anti-ENTPD5 rabbit monoclonal antibody at 1:500 dilution.
 - Lane A: HepG2 Whole Cell lysate.
 - Lysates/proteins at 30 µg per lane.
 - Secondary
 - Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.
 - Developed using the Odyssey technique.
 - Performed under reducing conditions.
 - Predicted band size:47 kDa.
 - Observed band size:53 kDa.
5. ENTPD5 was immunoprecipitated using:
 - Lane A:0.5 mg HepG2 Whole Cell Lysate
 - 0.5 µL anti-ENTPD5 rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose.
 - Primary antibody:
 - Anti-ENTPD5 rabbit monoclonal antibody, at 1:500 dilution.
 - Secondary antibody:
 - Clean-Blot[®] IP Detection Reagent (HRP) at 1:1000 dilution.
 - Developed using the DAB staining technique.
 - Performed under reducing conditions.
 - Predicted band size: 47 kDa.
 - Observed band size: 47 kDa

Verified Activity:

Application: ELISA(Cap),IHC-P,IP,WB

A DRUG SCREENING EXPERT

Recommended WB: 1:500-1:1000; IHC-P: 1:500-1:2000; IP: 0.2-1 µL/mg of lysate; ELISA(Cap): 1:1000-1:10000

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human ENTPD5 protein (TMPY-02758)

Antigen Species: Human

Synonyms: AI987697;mNTPase;ER-UDPase;ectonucleoside triphosphate diphosphohydrolase 5;NTPDase-5;AI196558;Cd39l4;NTPDase5;Pcph

Research Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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