

Product Name: AMPD1 Rabbit Polyclonal Antibody

Catalog #: APRab06834

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application IHC,ICC/IF,ELISA
Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

Clonality Polyclonal
Form Liquid
Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000

Molecular Weight

Antigen Information

Gene Name AMPD1

Alternative Names AMPD1; AMP deaminase 1; AMP deaminase isoform M; Myoadenylate deaminase

 Gene ID
 270.0

 SwissProt ID
 P23109

The antiserum was produced against synthesized peptide derived from human AMPD1. AA **Immunogen**

range:261-310

Background

Adenosine monophosphate deaminase 1 catalyzes the deamination of AMP to IMP in skeletal muscle and plays an important

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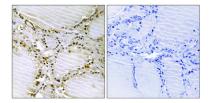


role in the purine nucleotide cycle. Two other genes have been identified, AMPD2 and AMPD3, for the liver- and erythocyte-specific isoforms, respectively. Deficiency of the muscle-specific enzyme is apparently a common cause of exercise-induced myopathy and probably the most common cause of metabolic myopathy in the human. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.[provided by RefSeq, Feb 2010],catalytic activity:AMP + H(2)O = IMP + NH(3),.disease:Defects in AMPD1 are the cause of adenosine monophosphate deaminase deficiency muscle type (AMPDDM) [MIM:102770]. AMPDDM is a metabolic disorder resulting in exercise-related myopathy. It is characterized by exercise-induced muscle aches, cramps, and early fatigue.,function:AMP deaminase plays a critical role in energy metabolism.,pathway:Purine metabolism; IMP biosynthesis via salvage pathway; IMP from AMP: step 1/1.,similarity:Belongs to the adenosine and AMP deaminases family,,subunit:Homotetramer.,tissue specificity:Three isoforms are present in mammals: AMP deaminase 1 is the predominant form in skeletal muscle; AMP deaminase 2 predominates in smooth muscle, non-muscle tissue, embryonic muscle and undifferentiated myoblasts; AMP deaminase 3 is found in erythrocytes.,

Research Area

Purine metabolism;

Image Data



Immunohistochemistry analysis of paraffin-embedded human thyroid gland tissue, using AMPD1 Antibody. The picture on the right is blocked with the synthesized peptide.

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