Best Tools for immunology Research

# AMPD1 Polyclonal Antibody

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| **Catalog No :** | YT0211 |
| **Reactivity :** | Human;Mouse;Rat |
| **Applications :** | IHC;IF;ELISA |
| **Target :** | AMPD1 |
| **Fields :** | >>Purine metabolism;>>Metabolic pathways;>>Nucleotide metabolism |
| **Gene Name :** | AMPD1 |
| **Protein Name :** | AMP deaminase 1 |
| **Human Gene Id :** | 270 |
| **Human Swiss Prot No :** | P23109 |
| **Mouse Swiss Prot No :** | Q3V1D3 |
| **Rat Gene Id :** | 25028 |
| **Rat Swiss Prot No :** | P10759 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human AMPD1. AA range:261-310 |
| **Specificity :** | AMPD1 Polyclonal Antibody detects endogenous levels of AMPD1 protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200 |
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

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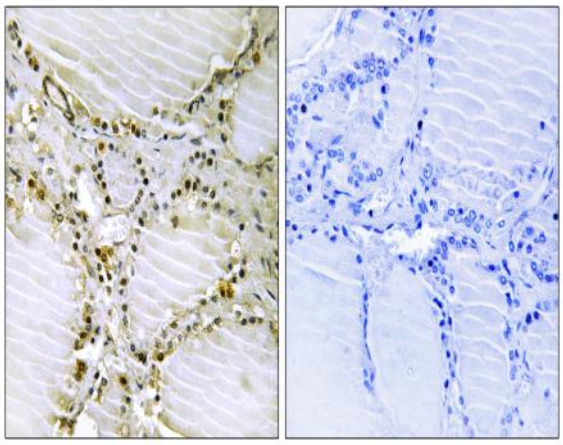
| **Concentration :** | 1 mg/ml |
| **Storage Stability :** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Molecularweight :** | 86kD |
| **Cell Pathway :** | Purine metabolism; |
| **Background :** | Adenosine monophosphate deaminase 1 catalyzes the deamination of AMP to IMP in skeletal muscle and plays an important 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], |
| **Function :** | 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., |
| **Subcellular Location :** | cytosol, |
| **Expression :** | Skeletal muscle, |

## Products Images



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