

For Research Use Only

# AMPD1-Specific Polyclonal antibody

Catalog Number: 19780-1-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**  
19780-1-AP

**Size:**  
150ul, Concentration: 350 ug/ml by Nanodrop and 207 ug/ml by Bradford method using BSA as the standard;

**Source:**  
Rabbit

**Isotype:**  
IgG

**GenBank Accession Number:**  
NM\_000036

**GeneID (NCBI):**  
270

**UNIPROT ID:**  
P23109

**Full Name:**  
adenosine monophosphate deaminase 1 (isoform M)

**Calculated MW:**  
87 kDa

**Observed MW:**  
75-83 kDa

**Purification Method:**  
Antigen affinity purification

**Recommended Dilutions:**  
WB 1:500-1:3000  
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate  
IHC 1:50-1:500

## Applications

**Tested Applications:**  
WB, IP, IHC, ELISA

**Cited Applications:**  
WB, IHC

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** mouse skeletal muscle tissue,

**IP:** mouse skeletal muscle tissue,

**IHC:** mouse skeletal muscle tissue,

## Background Information

AMPD1, also named as MAD and MADA, belongs to the adenosine and AMP deaminases family. AMP deaminase plays a critical role in energy metabolism. It catalyzes the reaction:  $AMP + H_2O = IMP + NH_3$ . Defects in AMPD1 are the cause of adenosine monophosphate deaminase deficiency muscle type (AMPDDM) which is a metabolic disorder resulting in exercise-related myopathy. The antibody is specific to AMPD1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Long Wang	34900696	Front Oncol	IHC
Zhenkang Chen	36598990	Sci Adv	WB
Mengxue Wang	39601333	J Cell Mol Med	IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

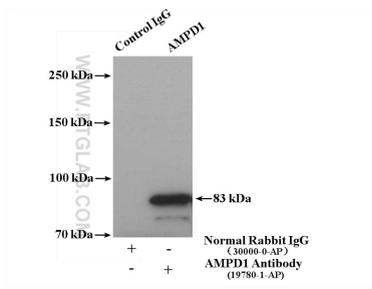
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

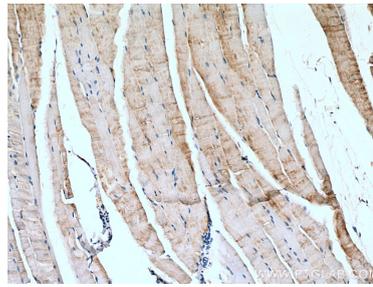
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



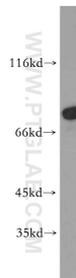
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 19780-1-AP (AMPD1-Specific antibody) at dilution of 1:300.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 19780-1-AP (AMPD1-Specific antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 19780-1-AP (AMPD1-Specific antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 19780-1-AP (AMPD1-Specific antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.