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AMPD1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57809

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q3V1D3
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86105
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse AMP deaminase 1
Epitope Specificity	101-200/745
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the adenosine and AMP deaminases family.
SUBUNIT	Homotetramer
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	AMP deaminase (AMPD) is an allosteric enzyme that plays a critical role in energy metabolism. There are three functional isoforms of AMPD. AMPD1 is the skeletal muscle-specific isoform M located in type II muscle fibers, neuromuscular junctions and in capillaries. Defects in AMPD1 are the cause of adenosine monophosphate deaminase deficiency muscle type (AMPDDM). AMPDDM is a metabolic disorder resulting in exercise-related myopathy. It is characterized by exercise-induced muscle aches, cramps, and early fatigue.

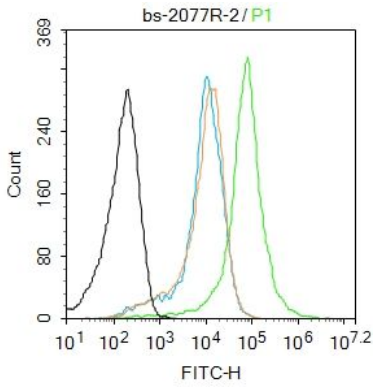
Additional Information

Gene ID	229665
Other Names	AMP deaminase 1, 3.5.4.6, AMP deaminase isoform M, Myoadenylate deaminase, Ampd1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug/Test,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Ampd1 {ECO:0000312|MGI:MGI:88015}
Function	AMP deaminase plays a critical role in energy metabolism.

Images



Blank control:Mouse spleen.
Primary Antibody (green line): Rabbit Anti-AMPD1 antibody (AP57809)
Dilution: 2 µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-AF488
Dilution: 1 µg /test.
Protocol
The cells were fixed with 70% ethanol (10min at room temperature) and then were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.