

Anti-AMPD3 antibody [AMPD3/901] ab233873

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Overview

Product name	Anti-AMPD3 antibody [AMPD3/901]
Description	Mouse monoclonal [AMPD3/901] to AMPD3
Host species	Mouse
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein corresponding to Human AMPD3. Database link: Q01432
Positive control	IHC-P: Human tonsil and placenta tissues.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Purity	Protein A/G purified
Purification notes	Purified from Bioreactor Concentrate by Protein A/G.
Clonality	Monoclonal
Clone number	AMPD3/901
Isotype	IgG2b
Light chain type	kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab233873 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 2 - 4 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Primary incubation for 30 minutes at RT.

Target

Function

AMP deaminase plays a critical role in energy metabolism.

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.

Pathway

Purine metabolism; IMP biosynthesis via salvage pathway; IMP from AMP: step 1/1.

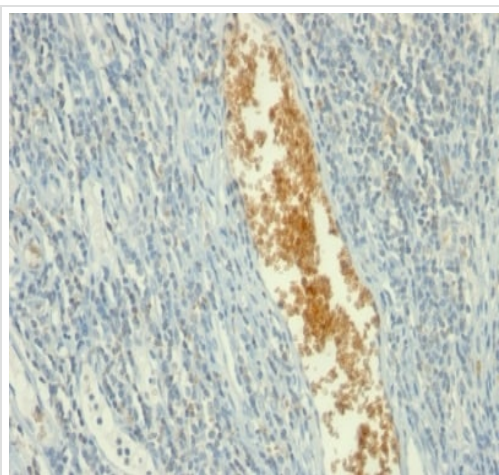
Involvement in disease

Defects in AMPD3 are the cause of adenosine monophosphate deaminase deficiency erythrocyte type (AMPDDE) [MIM:612874]; also known as erythrocyte AMP deaminase deficiency. AMPDDE is a metabolic disorder due to lack of activity of the erythrocyte isoform of AMP deaminase. It is a clinically asymptomatic condition characterized by a 50% increase in steady-state levels of ATP in affected cells. Individuals with complete deficiency of erythrocyte AMP deaminase are healthy and have no hematologic disorders.

Sequence similarities

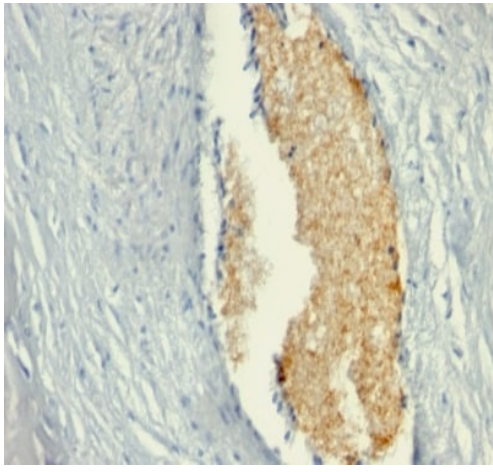
Belongs to the adenosine and AMP deaminases family.

Images



Formalin-fixed, paraffin-embedded human tonsil tissue stained for AMPD3 using ab233873 at 4 µg/ml in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMPD3 antibody
[AMPD3/901] (ab233873)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMPD3 antibody [AMPD3/901] (ab233873)

Formalin-fixed, paraffin-embedded human placenta tissue stained for AMPD3 using ab233873 at 4 µg/ml in immunohistochemical analysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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