abcam

Product datasheet

Anti-AMPS antibody [EPR10746(B)] ab154872

Recombinant RabMAb

4 Images

Overview

Product name	Anti-AMPS antibody [EPR10746(B)]
Description	Rabbit monoclonal [EPR10746(B)] to AMPS
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, ICC/IF **Unsuitable for:** Flow Cyt or IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human AMPS. Database link: **P30566**
Positive control	WB: C6, Raw 264.7, NIH/3T3, HeLa, HepG2 and Jurkat whole cell lysate (**ab7899**). ICC/IF: HeLa cells. IP: NIH/3T3
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20ºC.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR10746(B)

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab154872 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
WB		1/1000 - 1/10000. Predicted molecular weight: 55 kDa.
IP		1/40.
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for Flow Cyt or IHC-P.

Target

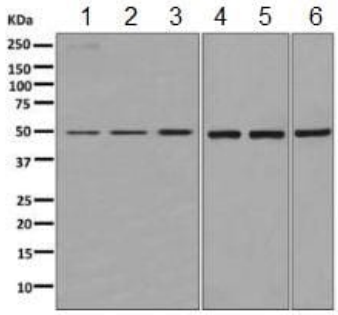
Tissue specificity Ubiquitously expressed. Both isoforms are produced by all tissues. Isoform 2 is 10-fold less abundant than isoform 1.

Pathway Purine metabolism; AMP biosynthesis via de novo pathway; AMP from IMP: step 2/2.
Purine metabolism; IMP biosynthesis via de novo pathway; 5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxamide from 5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxylate: step 2/2.

Involvement in disease Defects in ADSL are the cause of adenylosuccinase deficiency (ADSL deficiency) [MIM:103050]. ADSL deficiency is an autosomal recessive disorder characterized by the accumulation in the body fluids of succinylaminoimidazole-carboxamide riboside (SAICA-riboside) and succinyladenosine (S-Ado). Most children display marked psychomotor delay, often accompanied by epilepsy or autistic features, or both, although some patients may be less profoundly retarded. Occasionally, growth retardation and muscular wasting are also present.

Sequence similarities Belongs to the lyase 1 family. Adenylosuccinate lyase subfamily.

Images



Western blot - Anti-AMPS antibody [EPR10746(B)] (ab154872)

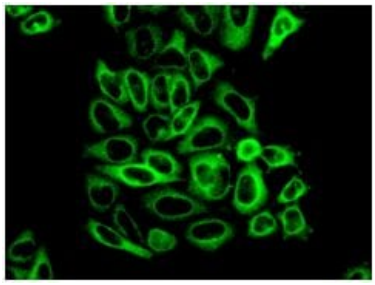
All lanes : Anti-AMPS antibody [EPR10746(B)] (ab154872) at 1/1000 dilution

Lane 1 : C6 cell lysate
Lane 2 : Raw 264.7 cell lysate
Lane 3 : NIH/3T3 cell lysate
Lane 4 : HeLa cell lysate
Lane 5 : HepG2 cell lysate
Lane 6 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

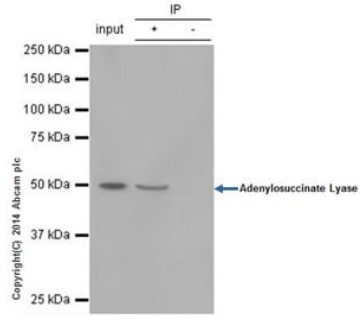
Secondary
All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 55 kDa



Immunocytochemistry/ Immunofluorescence - Anti-AMPS antibody [EPR10746(B)] (ab154872)

Immunofluorescence analysis of HeLa cells labeling AMPS with ab154872 at 1/250 dilution.



Immunoprecipitation - Anti-AMPS antibody [EPR10746(B)] (ab154872)

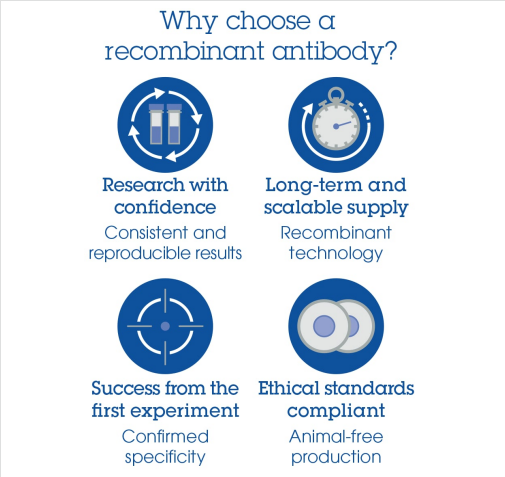
AMPS was immunoprecipitated from 1mg of NIH/3T3 (Mouse embyro fibroblast cells) whole cell extract with ab154872 at 1/40 dilution. Western blot was performed from the immunoprecipitate using ab154872 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1500 dilution.

Lane 1: NIH/3T3 whole cell extract, 10 µg (Input).

Lane 2: ab154872 IP in NIH/3T3 whole cell extract.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab154872 in NIH/3T3 whole cell extract.
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 seconds



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