abcam

Product datasheet

Anti-AMPS antibody [EPR10747(B)] ab154182

Recombinant RabMAb

2 References 9 Images

Overview

Product name	Anti-AMPS antibody [EPR10747(B)]
Description	Rabbit monoclonal [EPR10747(B)] to AMPS
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P **Unsuitable for:** IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human AMPS. The exact sequence is proprietary. The antibody does not recognize human ADSL isoform 2.
Positive control	HeLa, Jurkat, HepG2 and HCT-116 cell lysates, Human thyroid gland carcinoma tissue, permeabilized HeLa cells
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. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
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	Protein A purified
Clonality	Monoclonal

Clone number	EPR10747(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab154182 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
Flow Cyt (Intra)		1/100 - 1/500. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 55 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for IP.

Target

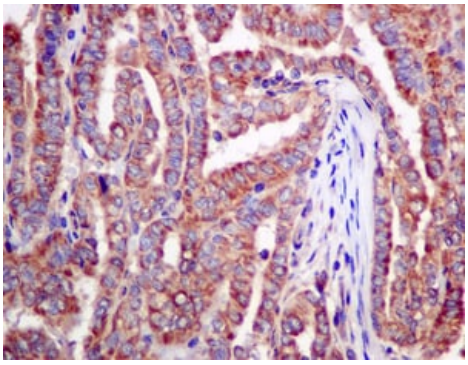
Tissue specificity Ubiquitously expressed. Both isoforms are produced by all tissues. Isoform 2 is 10-fold less abundant than isoform 1.

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.

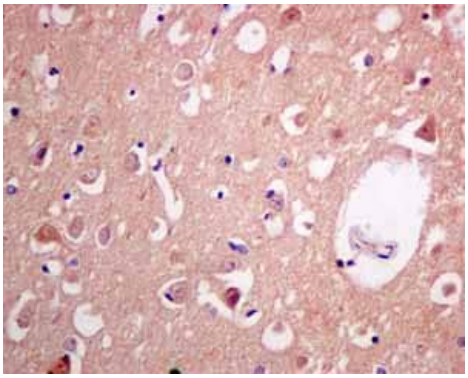
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMPS antibody [EPR10747(B)] (ab154182)

Immunohistochemical analysis of paraffin-embedded human thyroid gland carcinoma tissue labeling AMPS with ab154182 at 1/50 dilution.

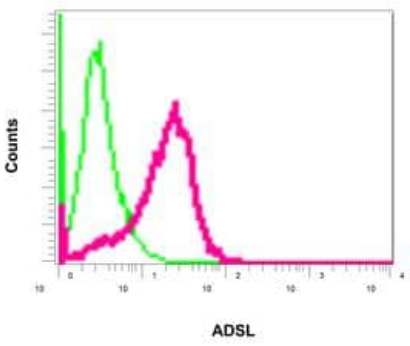
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMPS antibody [EPR10747(B)] (ab154182)

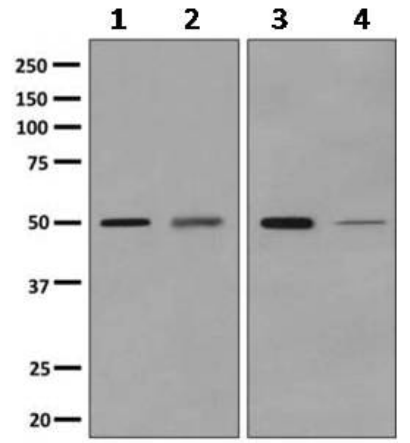
Immunohistochemical analysis of paraffin embedded Human normal brain tissue using ab154182 showing +ve staining.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-AMPS antibody [EPR10747(B)] (ab154182)

Intracellular flow cytometric analysis of permeabilized HeLa cells with ab154182 at 1/100 dilution (red) or a rabbit IgG (negative) (green).



Western blot - Anti-AMPS antibody [EPR10747(B)] (ab154182)

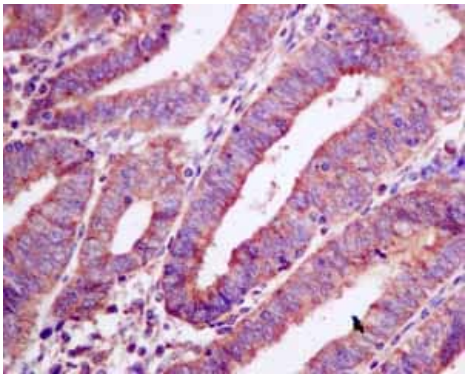
All lanes : Anti-AMPS antibody [EPR10747(B)] (ab154182) at 1/1000 dilution

Lane 1 : HeLa cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : HepG2 cell lysate
Lane 4 : HCT-116 cell lysate

Lysates/proteins at 10 µg per lane.

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

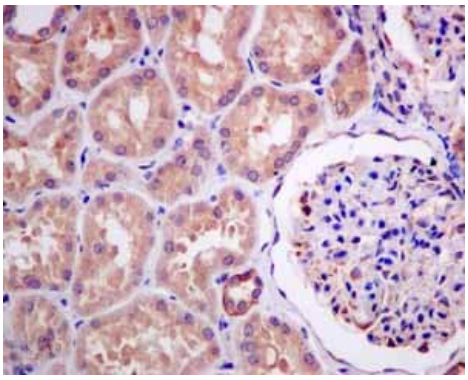
Predicted band size: 55 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMPS antibody [EPR10747(B)] (ab154182)

Immunohistochemical analysis of paraffin embedded Human endometrial carcinoma tissue using ab154182 showing +ve staining.

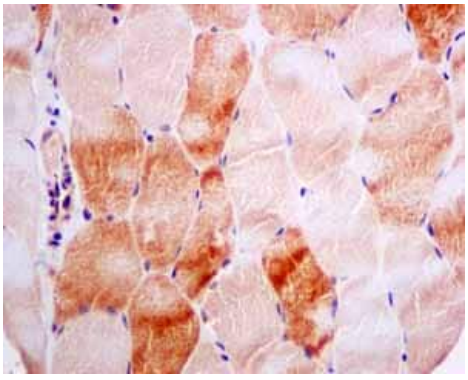
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMPS antibody [EPR10747(B)] (ab154182)

Immunohistochemical analysis of paraffin embedded Human normal kidney tissue using ab154182 showing +ve staining.

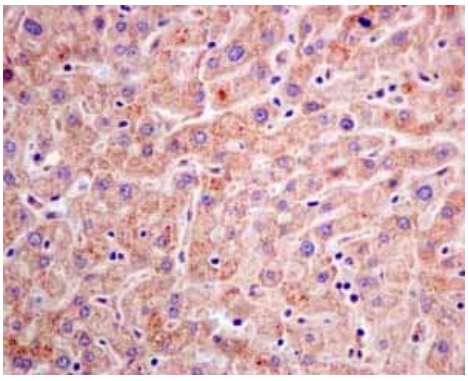
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMPS antibody [EPR10747(B)] (ab154182)

Immunohistochemical analysis of paraffin embedded Human skeletal muscle tissue using ab154182 showing +ve staining.

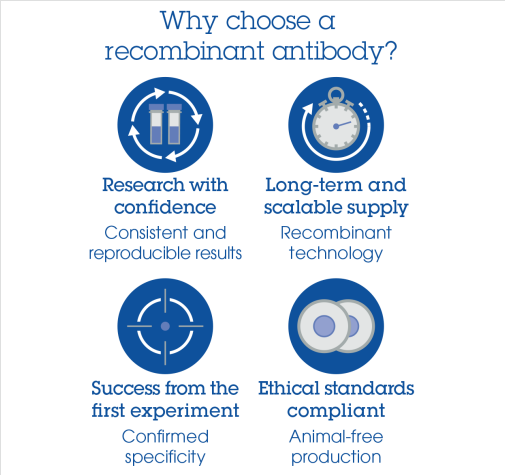
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMPS antibody [EPR10747(B)] (ab154182)

Immunohistochemical analysis of paraffin embedded Human normal liver tissue using ab154182 showing +ve staining.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



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