

Product datasheet

Anti-AlaRS antibody [EPR11037(B)] ab155275

Recombinant RabMAb

[1 References](#) [5 Images](#)

Overview

Product name	Anti-AlaRS antibody [EPR11037(B)]
Description	Rabbit monoclonal [EPR11037(B)] to AlaRS
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P Unsuitable for: ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human fetal liver, HeLa, K562 and HepG2 lysates; endometrial adenocarcinoma tissue; kidney tissue; permeabilized K562 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR11037(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab155275 in the following tested applications.

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

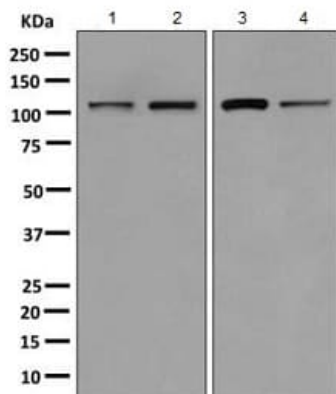
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 107 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for ICC/IF or IP.

Target

Function	Catalyzes the attachment of alanine to tRNA(Ala) in a two-step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala). Also edits incorrectly charged tRNA(Ala) via its editing domain.
Involvement in disease	Charcot-Marie-Tooth disease 2N
Sequence similarities	Belongs to the class-II aminoacyl-tRNA synthetase family.
Domain	Consists of three domains; the N-terminal catalytic domain, the editing domain and the C-terminal C-Ala domain. The editing domain removes incorrectly charged amino acids, while the C-Ala domain, along with tRNA(Ala), serves as a bridge to cooperatively bring together the editing and aminoacylation centers thus stimulating deacylation of misacylated tRNAs. The C-terminal C-Ala domain (residues 756 to 968), along with tRNA(Ala), serves as a bridge to cooperatively bring together the editing and aminoacylation centers thus stimulating deacylation of misacylated tRNAs. The human domain can be used in vitro to replace the corresponding domain in E.coli.
Post-translational modifications	ISGylated.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-AlaRS antibody [EPR11037(B)] (ab155275)

All lanes : Anti-AlaRS antibody [EPR11037(B)] (ab155275) at 1/1000 dilution

Lane 1 : Human fetal liver lysate

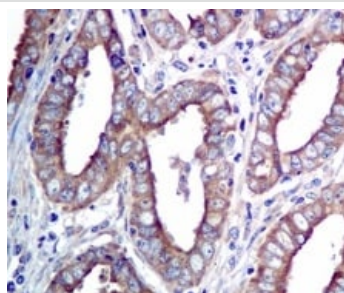
Lane 2 : HeLa lysate

Lane 3 : K562 lysate

Lane 4 : HepG2 lysate

Lysates/proteins at 10 µg per lane.

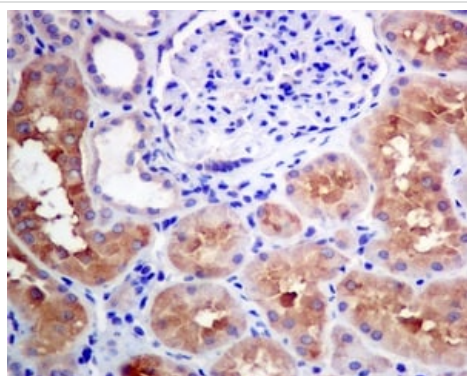
Predicted band size: 107 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AlaRS antibody [EPR11037(B)] (ab155275)

Immunohistochemical analysis of paraffin embedded Human endometrial adenocarcinoma tissue labeling AlaRS with ab155275 at a 1/50 dilution.

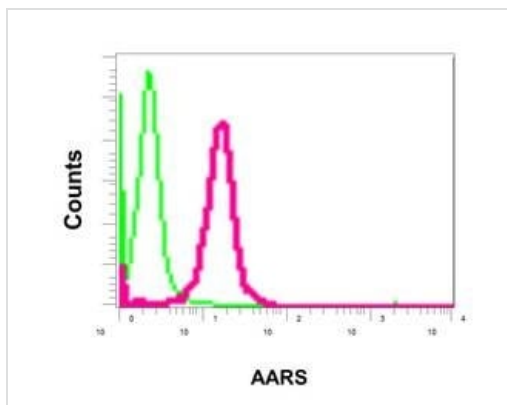
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AlaRS antibody [EPR11037(B)] (ab155275)

Immunohistochemical analysis of paraffin embedded Human kidney tissue labeling AlaRS with ab155275 at a 1/50 dilution.





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



Intracellular flow cytometric analysis of permeabilized K562 cells using ab155275 at a 1/10 dilution (red) and a rabbit IgG (negative) (green).

Flow Cytometry (Intracellular) - Anti-AlaRS antibody [EPR11037(B)] (ab155275)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-AlaRS antibody [EPR11037(B)] (ab155275)

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