

Anti-AMACR antibody ab194396

[1 References](#) [3 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-AMACR antibody |
| Description | Rabbit polyclonal to AMACR |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, IHC-P |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide corresponding to Human AMACR. Database link: Q9UHK6 |
| Positive control | IHC-P: Human prostate and lung carcinoma tissues. WB: Human kidney tissue lysate. |
| 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: 0.05% BSA, 99% PBS |
| Purity | Protein A purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab194396 in the following tested applications.

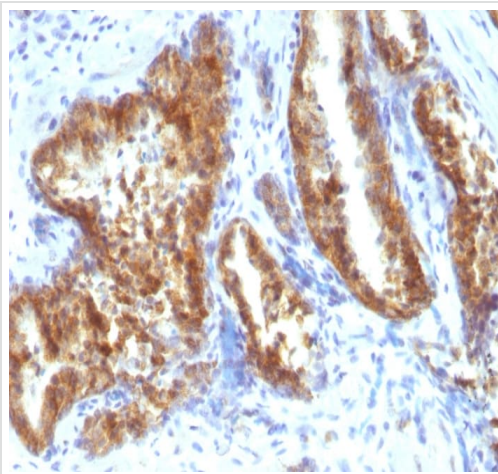
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | 1/50 - 1/100. Predicted molecular weight: 42 kDa. |
| IHC-P | | 1/50 - 1/100. Requires boiling tissue sections in 1mM EDTA, pH 7.5-8.5, for 10-20 min followed by cooling at RT for 20 minutes |

Target

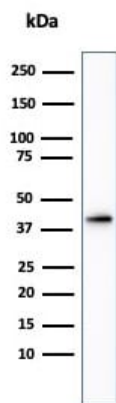
| | |
|------------------------|---|
| Function | Racemization of 2-methyl-branched fatty acid CoA esters. Responsible for the conversion of pristanoyl-CoA and C27-bile acyl-CoAs to their (S)-stereoisomers. |
| Pathway | Lipid metabolism; bile acid biosynthesis. Lipid metabolism; fatty acid metabolism. |
| Involvement in disease | Defects in AMACR are the cause of alpha-methylacyl-CoA racemase deficiency (AMACRD) [MIM:614307]. AMACRD results in elevated plasma concentrations of pristanic acid C27-bile-acid intermediates. It can be associated with polyneuropathy, retinitis pigmentosa, epilepsy. Defects in AMACR are the cause of congenital bile acid synthesis defect type 4 (CBAS4) [MIM:214950]; also known as cholestasis, intrahepatic, with defective conversion of trihydroxycoprostanic acid to cholic acid or trihydroxycoprostanic acid in bile. Clinical features include neonatal jaundice, intrahepatic cholestasis, bile duct deficiency and absence of cholic acid from bile. |
| Sequence similarities | Belongs to the CaiB/BaiF CoA-transferase family. |
| Cellular localization | Peroxisome. Mitochondrion. |

Images



Immunohistochemical analysis of Formalin-fixed, paraffin-embedded human prostate carcinoma labeling AMACR with ab194396 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMACR antibody (ab194396)

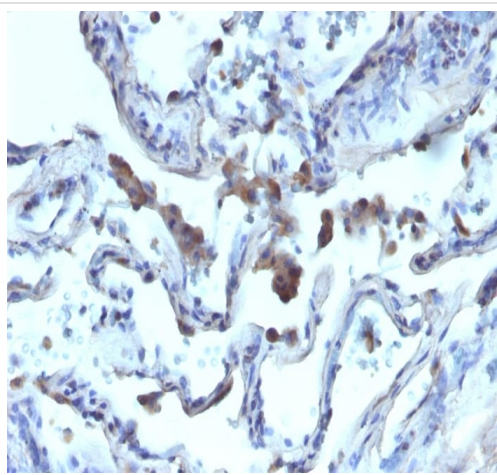


Western blot - Anti-AMACR antibody (ab194396)

Anti-AMACR antibody (ab194396) at 1/100 dilution + Human kidney tissue lysate

Predicted band size: 42 kDa

Western blot analysis of human kidney tissue lysate labeling AMACR with ab194396 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMACR antibody (ab194396)

Immunohistochemical analysis of Formalin-fixed, paraffin-embedded human lung carcinoma labeling AMACR with ab194396 at 1/100 dilution.

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