abcam

Product datasheet

Anti-AMACR antibody ab12498

1 Image

Overview

Product name	Anti-AMACR antibody
Description	Rabbit polyclonal to AMACR
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide (Human)
Positive control	Prostate carcinoma.
General notes	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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.3 Preservative: 0.05% Sodium azide Constituent: 1% BSA
Purity	IgG fraction
Purification notes	Purified immunoglobulin fraction of rabbit antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab12498 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		

Application notes IHC-P: 1/25 - 1/50. Perform heat mediated antigen retrieval with 10 mM citrate buffer, pH 6.0 before commencing with IHC staining protocol. We suggest an incubation period of 30 minutes at room temperature.

Not tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

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.

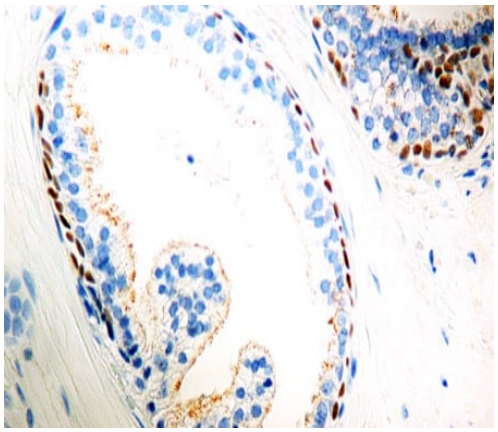
Pathway Lipid metabolism; bile acid biosynthesis.
Lipid metabolism; fatty acid metabolism.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMACR antibody (ab12498)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human prostate carcinoma tissue, staining AMACR with ab12498. Staining was detected using DAB.

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