



## Product datasheet

### Anti-AMACR antibody ab231333

4 Images

#### Overview

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<b>Product name</b>	Anti-AMACR antibody
<b>Description</b>	Rabbit polyclonal to AMACR
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Pig
<b>Immunogen</b>	Recombinant fragment (His-T7-tag) corresponding to Human AMACR aa 1-150. Expressed in E.coli. N-terminal tags. Database link: <a href="#">Q9UHK6</a>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: Recombinant human AMACR; Pig kidney and liver lysates. IHC-P: Human kidney tissue.
<b>General notes</b>	<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&amp;As</p>

#### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.011% Proclin 300 Constituents: 55.77% Glycerol (glycerin, glycerine), 44.219% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab231333 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		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.2 - 20 µg/ml. Predicted molecular weight: 42 kDa.

## 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.

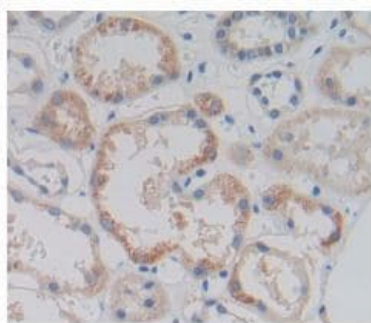
**Pathway** Lipid metabolism; bile acid biosynthesis.  
Lipid metabolism; fatty acid metabolism.

**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.

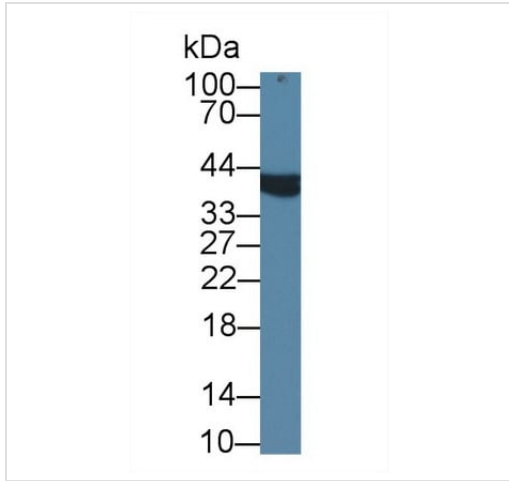
**Cellular localization** Peroxisome. Mitochondrion.

## Images



Formalin-fixed, paraffin-embedded human kidney tissue stained for AMACR using ab231333 at 20 µg/ml in immunohistochemical analysis. DAB staining.

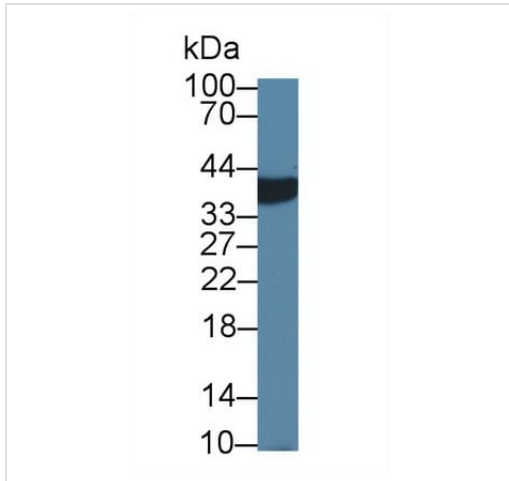
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMACR antibody (ab231333)



Western blot - Anti-AMACR antibody (ab231333)

Anti-AMACR antibody (ab231333) at 2 µg/ml + Pig kidney lysate

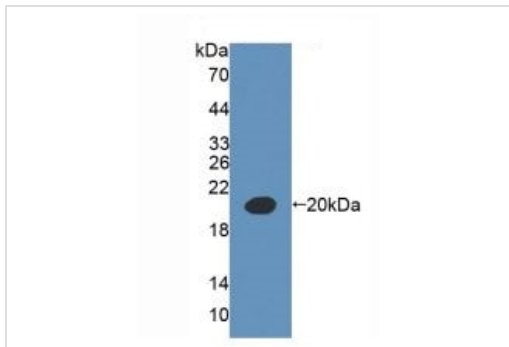
**Predicted band size:** 42 kDa



Western blot - Anti-AMACR antibody (ab231333)

Anti-AMACR antibody (ab231333) at 2 µg/ml + Pig liver lysate

**Predicted band size:** 42 kDa



Western blot - Anti-AMACR antibody (ab231333)

Anti-AMACR antibody (ab231333) at 2 µg/ml + Recombinant human AMACR protein

**Predicted band size:** 42 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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