

Product datasheet

Anti-AKR1B10 antibody [EPR14421] ab192865

Recombinant RabMAb

[1 References](#) [7 Images](#)

Overview

Product name	Anti-AKR1B10 antibody [EPR14421]
Description	Rabbit monoclonal [EPR14421] to AKR1B10
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	A549 and SW480 cell lysate; Human liver and stomach tissues; SW480 and A549 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>

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: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14421
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab192865 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)		1/50. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa).
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/50.

Target

Function

Acts as all-trans-retinaldehyde reductase. Can efficiently reduce aliphatic and aromatic aldehydes, and is less active on hexoses (in vitro). May be responsible for detoxification of reactive aldehydes in the digested food before the nutrients are passed on to other organs.

Tissue specificity

Found in many tissues. Highly expressed in small intestine, colon and adrenal gland.

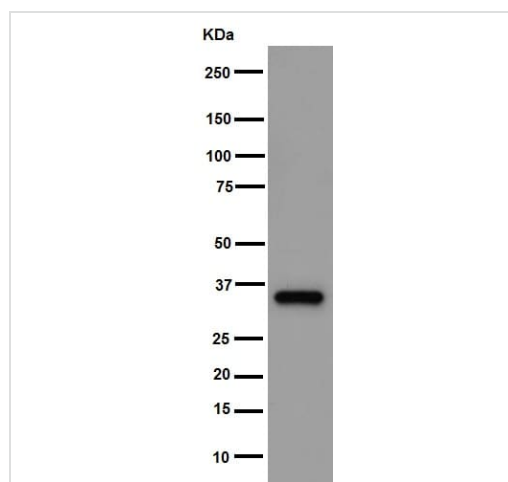
Sequence similarities

Belongs to the aldo/keto reductase family.

Cellular localization

Lysosome. Secreted. Secreted through a lysosome-mediated non-classical pathway.

Images



Western blot - Anti-AKR1B10 antibody [EPR14421] (ab192865)

Anti-AKR1B10 antibody [EPR14421] (ab192865) at 1/10000 dilution + A549 cell lysate at 20 µg

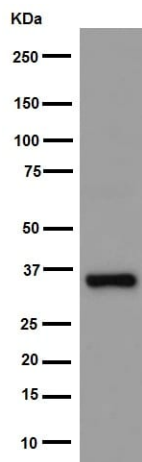
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 36 kDa

Observed band size: 36 kDa

Blocking buffer and concentration: 5% NFDm/TBST



Western blot - Anti-AKR1B10 antibody [EPR14421] (ab192865)

Anti-AKR1B10 antibody [EPR14421] (ab192865) at 1/1000 dilution + SW480 cell lysate at 20 µg

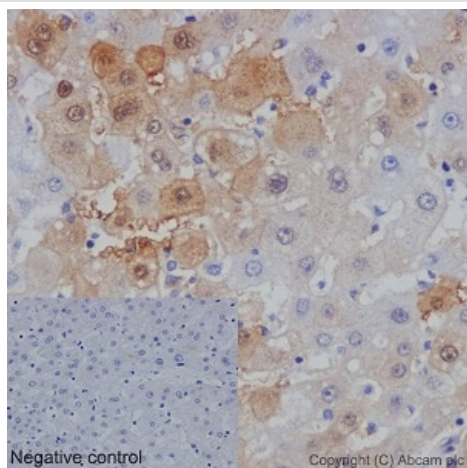
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 36 kDa

Observed band size: 36 kDa

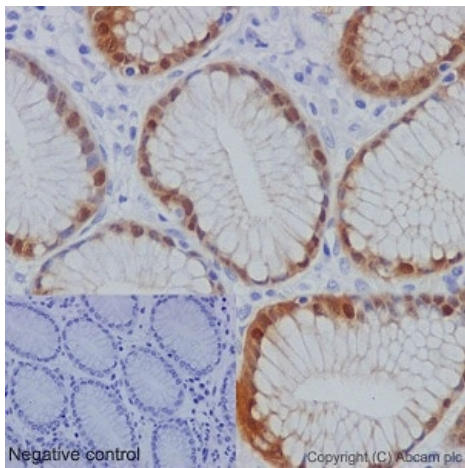
Blocking buffer and concentration: 5% NFDM/TBST



Immunohistochemical analysis of paraffin embedded Human liver tissue labeling AKR1B10 with ab192865 at a 1/1000 dilution. A prediluted HRP Polymer for Rabbit IgG was used as the secondary antibody. Hematoxylin counterstain.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

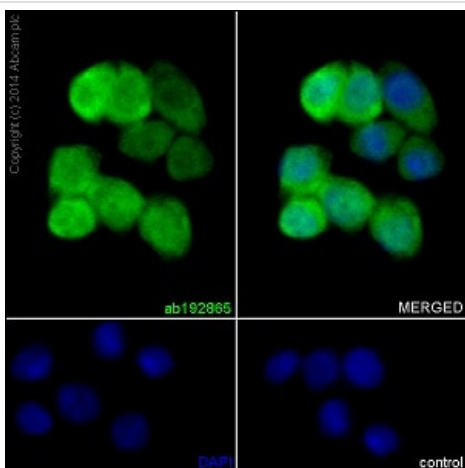
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKR1B10 antibody [EPR14421] (ab192865)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKR1B10 antibody [EPR14421] (ab192865)

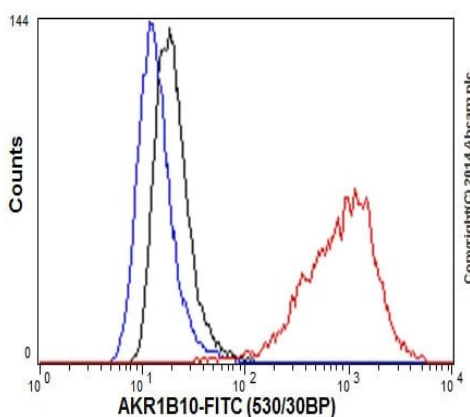
Immunohistochemical analysis of paraffin embedded human stomach tissue sections labeling AKR1B10 using ab192865 at a 1/1,000 dilution. A prediluted HRP Polymer for Rabbit IgG was used as the secondary antibody. Hematoxylin counterstain.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-AKR1B10 antibody [EPR14421] (ab192865)

Immunofluorescent analysis of 4% paraformaldehyde fixed SW480 cells labeling AKR1B10 with ab192865 at a 1/50 dilution. A Goat anti rabbit IgG (Alexa Fluor®488) (**ab150077**) was used as the secondary antibody at a 1/400 dilution. Counterstain DAPI. Cells were permeabilized using 0.1% Triton X-100.



Flow Cytometry (Intracellular) - Anti-AKR1B10 antibody [EPR14421] (ab192865)

Intracellular flow cytometric analysis of A549 cells labeling AKR1B10 using ab192865 at a 1/50 dilution (red). Goat anti rabbit IgG (FITC) was used as the secondary antibody at a 1/150 dilution. Isotype control Rabbit monoclonal IgG (black). Unlabeled control cells without incubation with primary antibody and secondary antibody (blue). Cells were fixed in 2% paraformaldehyde.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-AKR1B10 antibody [EPR14421] (ab192865)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors