

Product datasheet

Anti-AKR1B10 antibody [EPR14421] - BSA and Azide free ab232623

Recombinant RabMAb

5 Images

Overview

Product name	Anti-AKR1B10 antibody [EPR14421] - BSA and Azide free
Description	Rabbit monoclonal [EPR14421] to AKR1B10 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human AKR1B10 aa 100-200. The exact sequence is proprietary. Database link: O60218
Positive control	IHC-P: Human stomach tissue.
General notes	Ab232623 is the carrier-free version of ab192865 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

ab232623 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14421
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab232623** in the following tested applications.

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

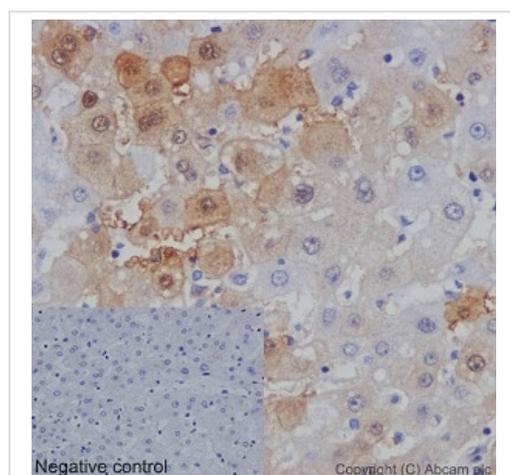
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa).
ICC/IF		Use at an assay dependent concentration.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

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

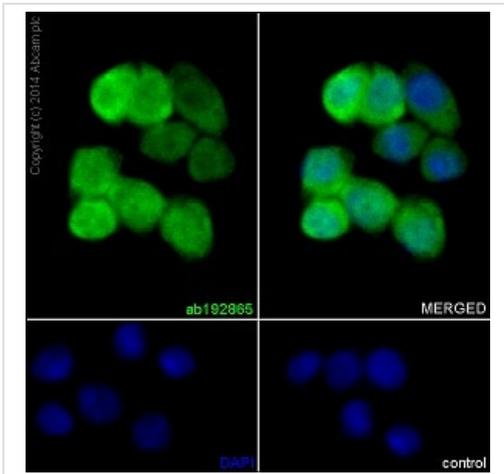


Immunohistochemical analysis of paraffin embedded Human liver tissue labeling AKR1B10 with [ab192865](#) at a 1/1000 dilution. A prediluted HRP Polymer for Rabbit IgG was used as the secondary antibody. Hematoxylin counterstain.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab192865](#)).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

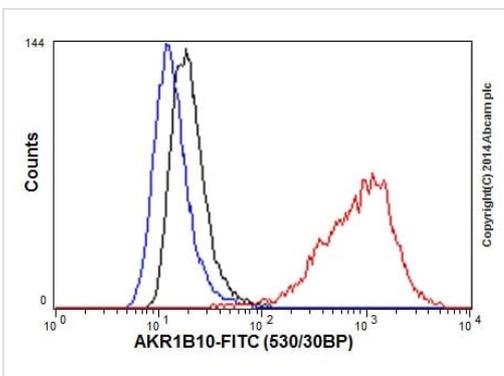
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKR1B10 antibody [EPR14421] - BSA and Azide free ([ab232623](#))



Immunocytochemistry/ Immunofluorescence - Anti-AKR1B10 antibody [EPR14421] - BSA and Azide free (ab232623)

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.

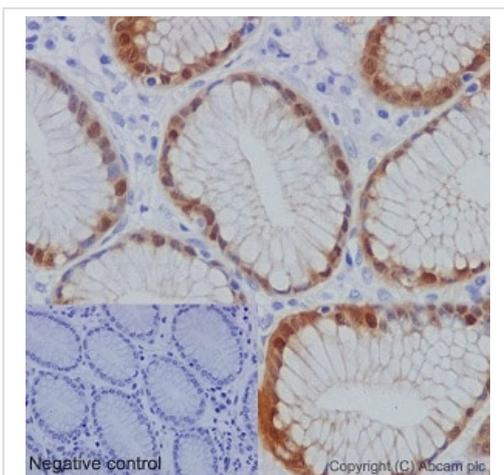
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab192865](#)).



Flow Cytometry - Anti-AKR1B10 antibody [EPR14421] - BSA and Azide free (ab232623)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab192865](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKR1B10 antibody [EPR14421] - BSA and Azide free (ab232623)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab192865](#)).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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] - BSA and Azide free (ab232623)

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