

Product datasheet

Anti-AKR1C1/AKR1C2 antibody [EPR11542] - BSA and Azide free ab250092

Recombinant RabMAb

[6 Images](#)

Overview

Product name	Anti-AKR1C1/AKR1C2 antibody [EPR11542] - BSA and Azide free
Description	Rabbit monoclonal [EPR11542] to AKR1C1/AKR1C2 - BSA and Azide free
Host species	Rabbit
Specificity	AKR1C1 and AKR1C2 (Swiss Prot: Q04828/P52895) sequences are 98% identical.
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt (Intra), IP Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: U-87 MG cells. WB: His-tagged AKR1C2 and AKR1C2 recombinant full length proteins, HepG2, U87-MG, Human fetal liver and HeLa lysates. IP: HepG2 cell lysate. Flow Cyt: U87-MG cells.
General notes	<p>ab250092 is the carrier-free version of ab179448.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>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.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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

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](#).

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	Affinity purified
Clonality	Monoclonal
Clone number	EPR11542
Isotype	IgG

Applications

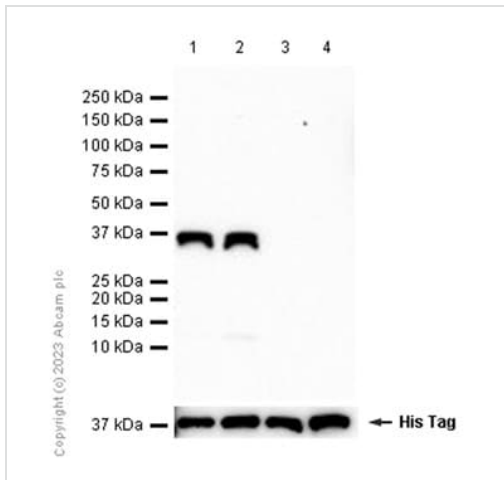
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab250092 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 37 kDa.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Application notes Is unsuitable for IHC-P.

Target

Images



Western blot - Anti-AKR1C1/AKR1C2 antibody [EPR11542] - BSA and Azide free (ab250092)

All lanes : Anti-AKR1C1/AKR1C2 antibody [EPR11542] ([ab179448](#)) at 1/1000 dilution

Lane 1 : His-tagged human AKR1C1 recombinant protein, full-length

Lane 2 : His-tagged human AKR1C2 recombinant protein, full-length

Lane 3 : His-tagged human AKR1C3 recombinant protein, full-length

Lane 4 : His-tagged human AKR1C4 recombinant protein, full-length

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 37 kDa

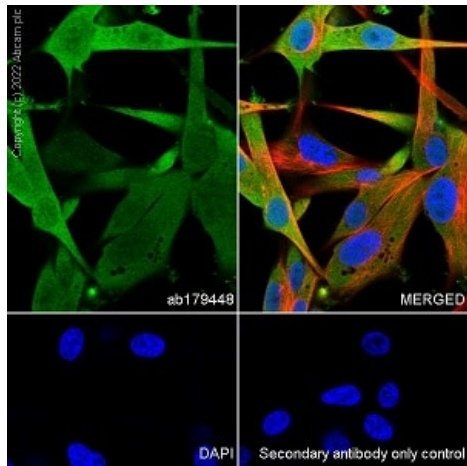
Observed band size: 39 kDa

Exposure time: 40 seconds

Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

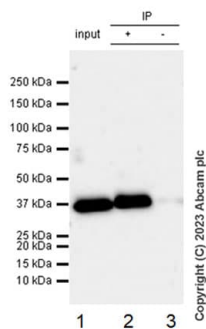
This data was developed using [ab179448](#), the same antibody clone in a different buffer formulation.



Immunocytochemistry/ Immunofluorescence - Anti-AKR1C1/AKR1C2 antibody [EPR11542] - BSA and Azide free (ab250092)

Immunocytochemical/immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-87 MG (human glioblastoma- astrocytoma epithelial cell) cells labelling AKR1C1/AKR1C2 with primary antibody anti-AKR1C1/AKR1C2 (**ab179448**) at 1/500 dilution, followed by AlexaFluor®488 Goat anti-Rabbit (**ab150077**) secondary antibody at 1/1000 dilution. Confocal image showing cytoplasmic and nuclear staining in U-87 MG cell line. Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) was used to counterstain tubulin at 1:200 dilution. The nuclear counter stain is DAPI (blue).

This data was developed using **ab179448**, the same antibody clone in a different buffer formulation.



Immunoprecipitation - Anti-AKR1C1/AKR1C2 antibody [EPR11542] - BSA and Azide free (ab250092)

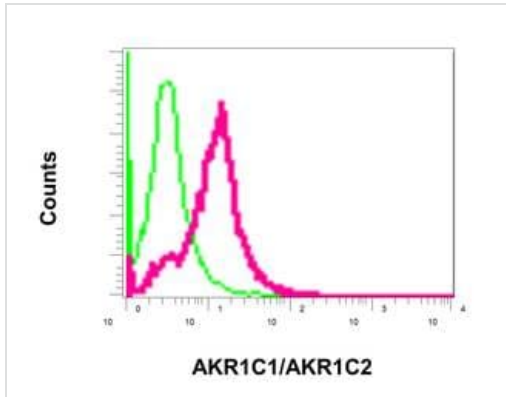
AKR1C1/AKR1C2 was immunoprecipitated from U-87 MG lysates with **ab179448** at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using **ab179448** at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate 10 µg

Lane 2: U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab179448** in U-87 MG whole cell lysate

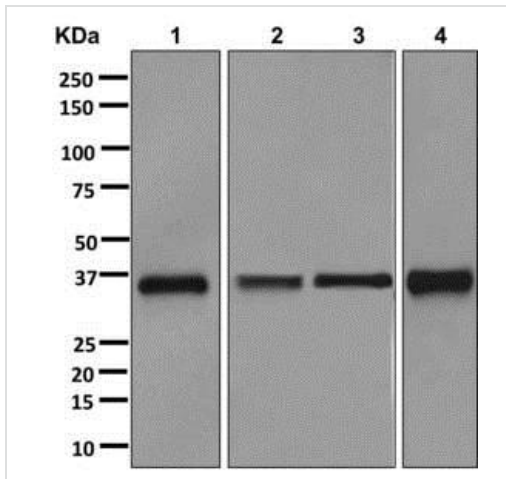
Blocking and dilution buffer and concentration: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-AKR1C1/AKR1C2 antibody [EPR11542] - BSA and Azide free (ab250092)

This data was developed using **ab179448**, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of permeabilized U87-MG cells labeling AKR1C1/AKR1C2 with **ab179448** at 1/10 dilution (red), compared to a rabbit IgG negative control (green).



Western blot - Anti-AKR1C1/AKR1C2 antibody [EPR11542] - BSA and Azide free (ab250092)

All lanes : Anti-AKR1C1/AKR1C2 antibody [EPR11542] (**ab179448**) at 1/1000 dilution

Lane 1 : HepG2 lysate

Lane 2 : U87-MG lysate

Lane 3 : Human fetal liver lysate

Lane 4 : HeLa lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 37 kDa

This data was developed using **ab179448**, the same antibody clone in a different buffer formulation.

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

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

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