

Product datasheet

Anti-AKR1C1/AKR1C2 antibody [EPR11542] ab179448

Recombinant RabMAb

[4 References](#) [6 Images](#)

Overview

Product name	Anti-AKR1C1/AKR1C2 antibody [EPR11542]
Description	Rabbit monoclonal [EPR11542] to AKR1C1/AKR1C2
Host species	Rabbit
Specificity	AKR1C1 and AKR1C2 (Swiss Prot: Q04828/P52895) sequences are 98% identical
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB, 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	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant

Clonality	Monoclonal
Clone number	EPR11542
Isotype	IgG

Applications

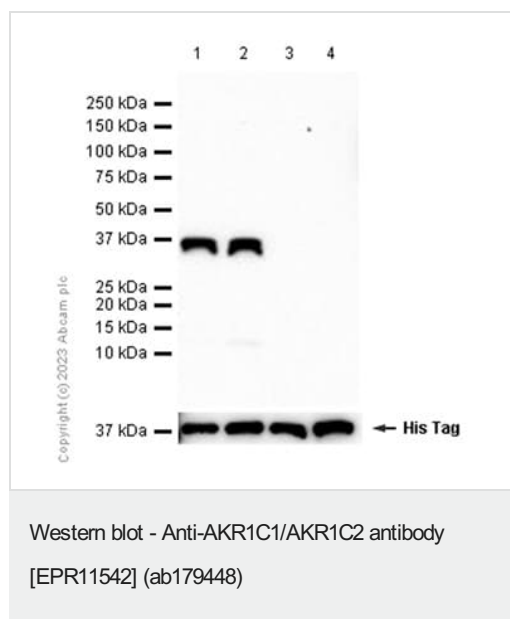
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab179448 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/500.
WB		1/1000 - 1/10000. Predicted molecular weight: 37 kDa.
IP		1/10 - 1/100.

Application notes Is unsuitable for IHC-P.

Target

Images



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

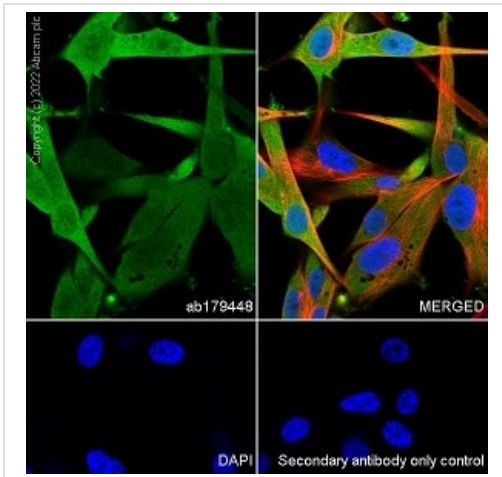
Predicted band size: 37 kDa

Observed band size: 39 kDa

Exposure time: 40 seconds

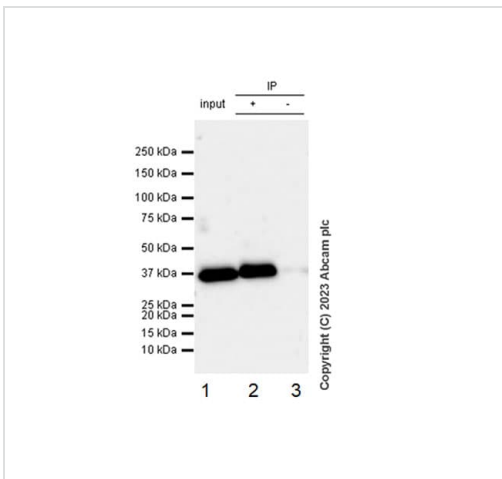
Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-AKR1C1/AKR1C2 antibody [EPR11542] (ab179448)

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).



Immunoprecipitation - Anti-AKR1C1/AKR1C2 antibody [EPR11542] (ab179448)

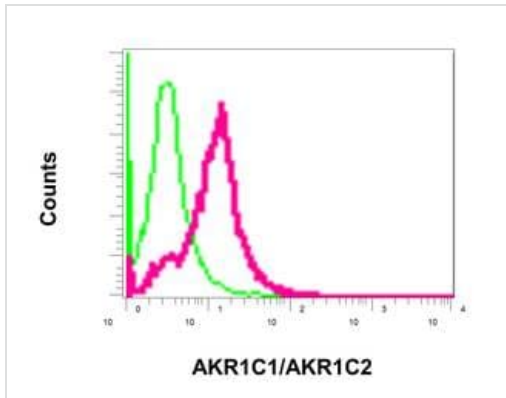
AKR1C1/AKR1C2 was immunoprecipitated from U-87 MG lysates with ab179448 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab179448 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (**ab131366**) was used at 1/5000 dilution.

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

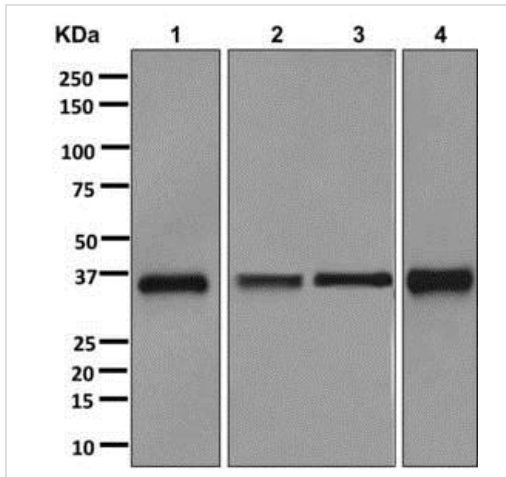
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab179448 in U-87 MG whole cell lysate

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



Flow Cytometry (Intracellular) - Anti-AKR1C1/AKR1C2 antibody [EPR11542] (ab179448)

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] (ab179448)

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

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-AKR1C1/AKR1C2 antibody [EPR11542]
(ab179448)

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