

## Product datasheet

### Anti-AKR1C1/AKR1C2 antibody [EPR11542] $\alpha$ b179448

Recombinant RabMAb

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

#### Overview

<b>Product name</b>	Anti-AKR1C1/AKR1C2 antibody [EPR11542]
<b>Description</b>	Rabbit monoclonal [EPR11542] to AKR1C1/AKR1C2
<b>Host species</b>	Rabbit
<b>Specificity</b>	AKR1C1 and AKR1C2 (Swiss Prot: Q04828/P52895) sequences are 98% identical
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), ICC/IF, WB, IP <b>Unsuitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	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.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<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>	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
<b>Purity</b>	Tissue culture supernatant

Clonality	Monoclonal
Clone number	EPR11542
Isotype	IgG

### Applications

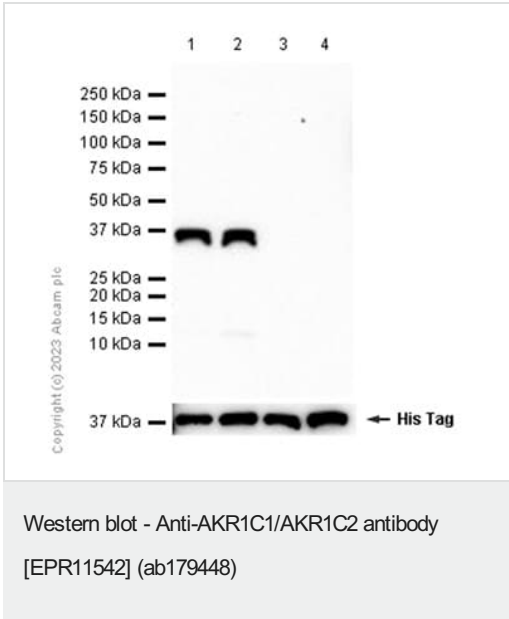
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab179448 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - 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

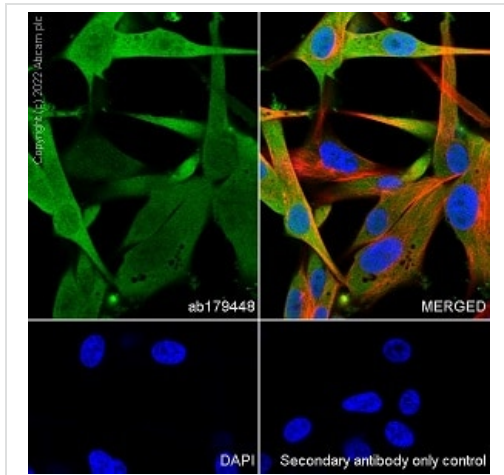
**Predicted band size:** 37 kDa

**Observed band size:** 39 kDa

**Exposure time:** 40 seconds

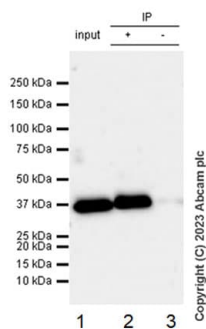
**Blocking buffer and concentration:** 5% NFDM/TBST.

**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)

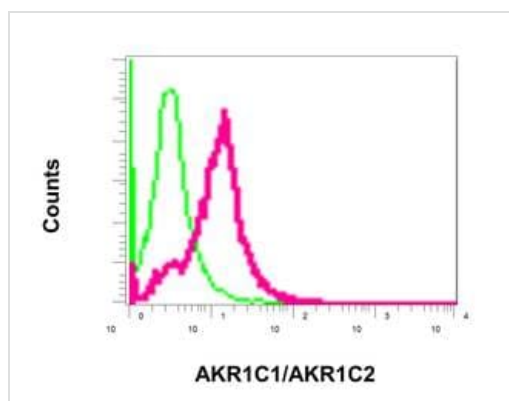
AKR1C1/AKR1C2 was immunoprecipitated from U-87 MG lysates with ab179448 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab179448 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (**ab131366**) was used at 1/5000 dilution.

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

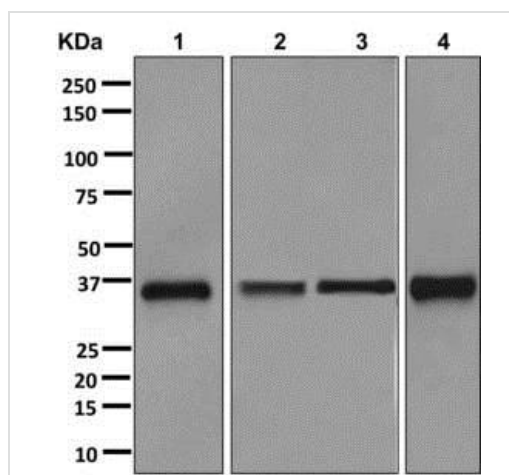
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab179448 in U-87 MG whole cell lysate

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"

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