

## Product datasheet

# Anti-USP22 antibody [EPR4352(2)] ab109435

**KO VALIDATED** Recombinant RabMAB

★★★★☆ 1 Abreviews 5 Images

### Overview

<b>Product name</b>	Anti-USP22 antibody [EPR4352(2)]
<b>Description</b>	Rabbit monoclonal [EPR4352(2)] to USP22
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IP, Flow Cyt <b>Unsuitable for:</b> ICC or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	A synthetic peptide corresponding to residues in human USP22
<b>Positive control</b>	HeLa, HAP1, human placenta and HT-1376 lysates
<b>General notes</b>	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

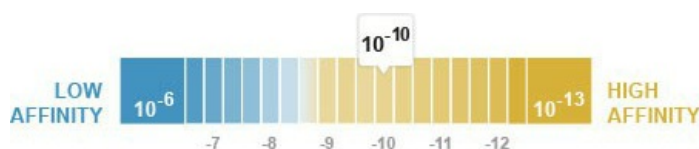
Our RabMAB<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMab<sup>®</sup> patents](#)

**We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.**

This product is a recombinant rabbit monoclonal antibody.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 1.13 x 10 <sup>-10</sup> M



<b>Storage buffer</b>	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR4352(2)
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab109435** 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
ICC/IF	★★★★☆	1/200.
WB		1/1000 - 1/5000. Predicted molecular weight: 60 kDa.
IP		1/10 - 1/100.
Flow Cyt		1/10 - 1/100. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

**Application notes** Is unsuitable for ICC or IHC-P.

## Target

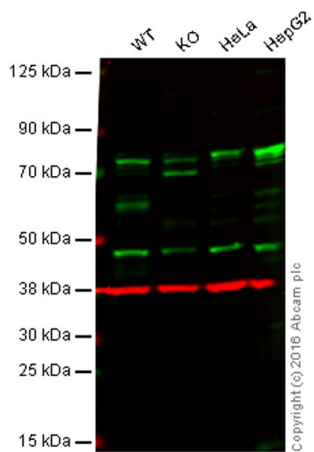
**Function** Histone deubiquitinating component of the transcription regulatory histone acetylation (HAT) complex SAGA. Catalyzes the deubiquitination of both histones H2A and H2B, thereby acting as a coactivator. Recruited to specific gene promoters by activators such as MYC, where it is required for transcription. Required for nuclear receptor-mediated transactivation and cell cycle progression.

**Tissue specificity** Moderately expressed in various tissues including heart and skeletal muscle, and weakly expressed in lung and liver.

**Sequence similarities** Belongs to the peptidase C19 family. UBP8 subfamily.  
Contains 1 UBP-type zinc finger.

**Cellular localization** Nucleus.

## Images



Western blot - Anti-USP22 antibody [EPR4352(2)] (ab109435)

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

**Lane 2:** USP22 knockout HAP1 cell lysate (20 µg)

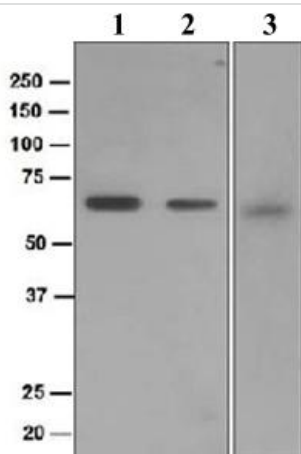
**Lane 3:** HeLa cell lysate (20 µg)

**Lane 4:** HepG2 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green).

Green - ab109435 observed at 60 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

Ab109435 was shown to specifically react with USP22 in wild-type cells along with additional cross-reactive bands. The band was not seen in USP22 knockout HAP1 cells. Wild-type and USP22 knockout samples were subjected to SDS-PAGE. ab109435 and [ab8245](#) (loading control to GAPDH) were diluted at 1/1000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-USP22 antibody [EPR4352(2)] (ab109435)

**All lanes :** Anti-USP22 antibody

[EPR4352(2)] (ab109435) at 1/1000 dilution

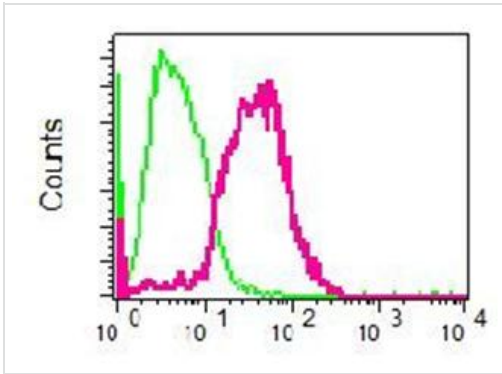
**Lane 1 :** HeLa lysate

**Lane 2 :** Human placenta lysate

**Lane 3 :** HT-1376 lysate

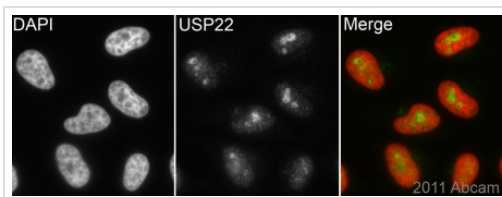
Lysates/proteins at 10 µg per lane.

**Predicted band size:** 60 kDa



Flow cytometric analysis of permeabilized HeLa cells using 1/10 ab109435 (red) or a rabbit IgG (negative) (green).

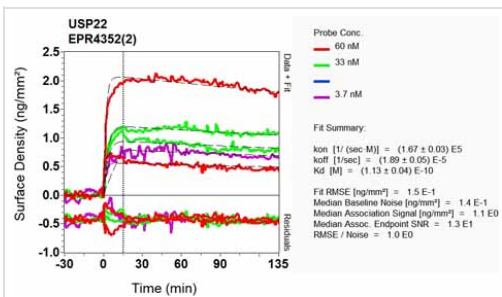
Flow Cytometry - Anti-USP22 antibody [EPR4352(2)] (ab109435)



ab109435 (1/200) staining USP22 in HeLa cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.5% Triton X100 and counterstained with DAPI in order to highlight the nucleus (red). for further experimental details please refer to Abreview.

Immunocytochemistry/ Immunofluorescence - Anti-USP22 antibody [EPR4352(2)] (ab109435)

Image courtesy of an Abreview submitted by Dr. Kirk McManus, Univ. of Manitoba/Cancer Care MICB, Canada



Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

Other - Anti-USP22 antibody [EPR4352(2)] (ab109435)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

### 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