

Product datasheet

Anti-USP19 antibody [EPR14816] α b189518

KO **VALIDATED** Recombinant RabMAb[®]

★★★★☆ **1 Abreviews** [5 Images](#)

Overview

Product name	Anti-USP19 antibody [EPR14816]
Description	Rabbit monoclonal [EPR14816] to USP19
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt (Intra)
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat, 293T and HeLa lysates. Human fetal brain lysate. Jurkat cells.
General notes	<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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14816
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab189518 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	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 146 kDa.
Flow Cyt (Intra)		1/250. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function

Deubiquitinating enzyme that regulates the degradation of various proteins. Deubiquitinates and prevents proteasomal degradation of RNF123 which in turn stimulates CDKN1B ubiquitin-dependent degradation thereby playing a role in cell proliferation. Involved in decreased protein synthesis in atrophying skeletal muscle. Modulates transcription of major myofibrillar proteins. Also involved in turnover of endoplasmic-reticulum-associated degradation (ERAD) substrates.

Sequence similarities

Belongs to the peptidase C19 family.
Contains 2 CS domains.
Contains 1 MYND-type zinc finger.

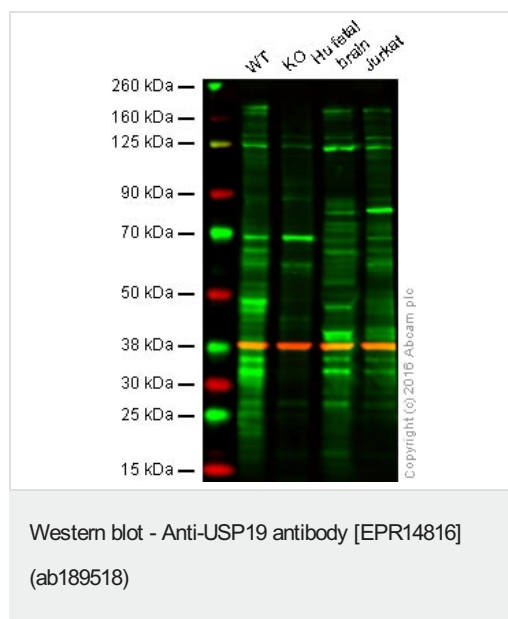
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Endoplasmic reticulum membrane.

Images



Lane 1: Wild-type HAP1 cell lysate (40 µg)

Lane 2: USP19 knockout HAP1 cell lysate (40 µg)

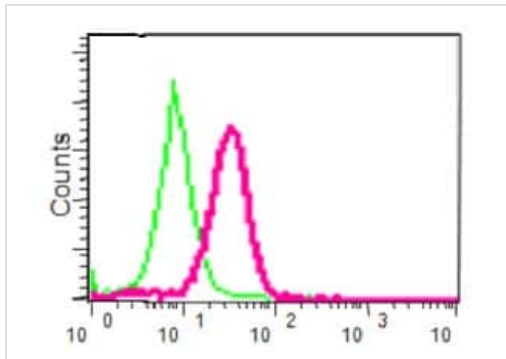
Lane 3: Jurkat cell lysate (40 µg)

Lane 4: HeLa cell lysate (40 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab189518 observed at 160 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

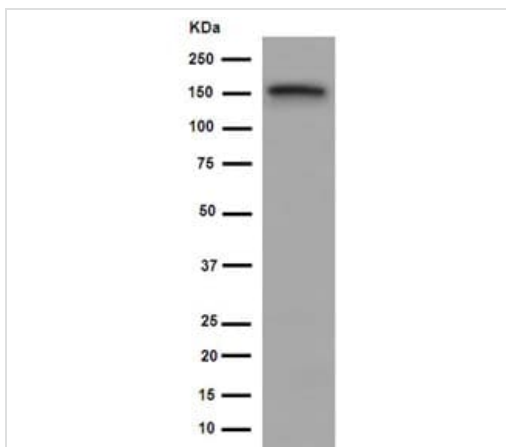
ab189518 was shown to recognize USP19 when USP19 knockout samples were used, along with additional cross-reactive bands. Wild-type and USP19 knockout samples were subjected to SDS-PAGE. Ab189518 and [ab8245](#) (loading control to GAPDH) were diluted at 1/1000 and 1/10000 dilution respectively and incubated 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 hour at room

temperature before imaging.



Flow Cytometry (Intracellular) - Anti-USP19 antibody [EPR14816] (ab189518)

Intracellular flow cytometric analysis of Jurkat cells (left histogram) labeling USP19 with ab189518 at 1/250 dilution compared to negative control cells (right histogram). Secondary antibody FITC-conjugated goat-anti-rabbit IgG used at 1/150 dilution.



Western blot - Anti-USP19 antibody [EPR14816] (ab189518)

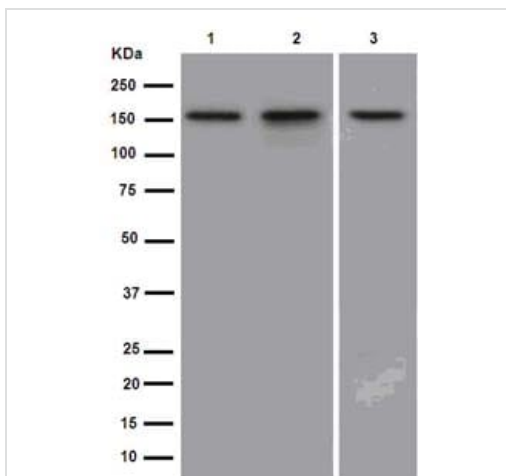
Anti-USP19 antibody [EPR14816] (ab189518) at 1/5000 dilution + Human fetal brain lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 146 kDa



Western blot - Anti-USP19 antibody [EPR14816] (ab189518)

All lanes : Anti-USP19 antibody [EPR14816] (ab189518) at 1/10000 dilution

Lane 1 : Jurkat lysate

Lane 2 : 293T lysate

Lane 3 : HeLa lysate

Lysates/proteins at 10 µg per lane.





Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 146 kDa

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-USP19 antibody [EPR14816] (ab189518)

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

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