abcam

Product datasheet

Anti-USP11 antibody [EPR4346] ab109232

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-USP11 antibody [EPR4346]
Description	Rabbit monoclonal [EPR4346] to USP11
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, Flow Cyt (Intra) **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: 293T, Jurkat, Human testis, Human fetal kidney and LnCaP cell lysates
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 49% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4346
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109232 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	★★★★★ **(2)**	1/1000 - 1/10000. Detects a band of approximately 110 kDa (predicted molecular weight: 110 kDa).
IP		1/10 - 1/300.
Flow Cyt (Intra)		1/500 - 1/1000. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IHC-P.

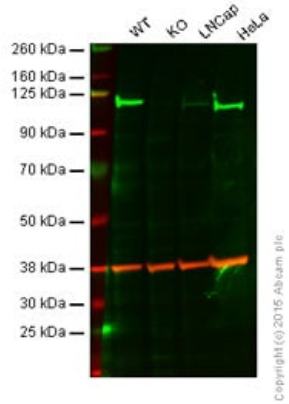
Target

Function Protease that can remove conjugated ubiquitin from target proteins and polyubiquitin chains. Inhibits the degradation of target proteins by the proteasome. Plays a role in the regulation of pathways leading to NF-kappa-B activation. Plays a role in the regulation of DNA repair after double-stranded DNA breaks.

Sequence similarities Belongs to the peptidase C19 family.
Contains 1 DUSP domain.

Cellular localization Nucleus. Cytoplasm. Predominantly nuclear. Associates with chromatin.

Images

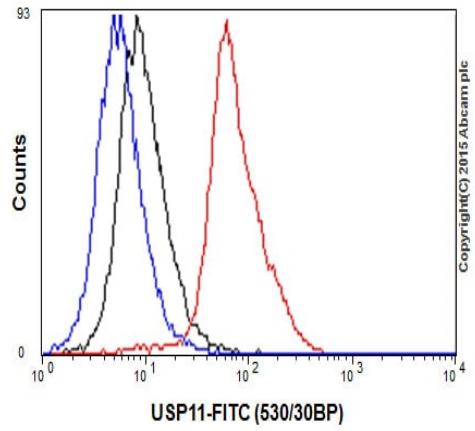


Western blot - Anti-USP11 antibody [EPR4346] (ab109232)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: USP11 knockout HAP1 cell lysate (20 µg)
Lane 3: LNCaP cell lysate (20 µg)
Lane 4: HeLa cell lysate (20 µg)

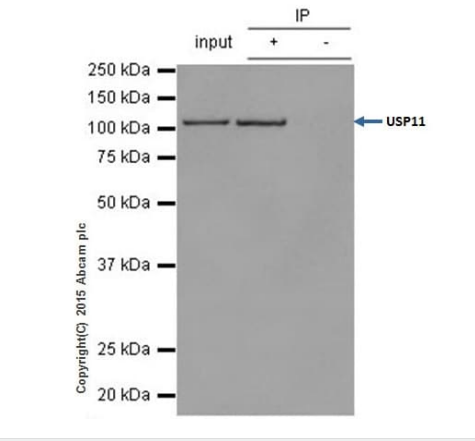
Lanes 1 - 4: Merged signal (red and green). Green - ab109232 observed at 110 kDa. Red - loading control, **ab8245**, observed at 37 kDa.
ab109232 was shown to specifically react with USP11 when USP11 knockout samples were used. Wild-type and USP11 knockout samples were subjected to SDS-PAGE. ab109232 and **ab8245** (loading control to GAPDH) were diluted 1/5000 and 1/2000 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 1/10

000 dilution for 1 h at room temperature before imaging.



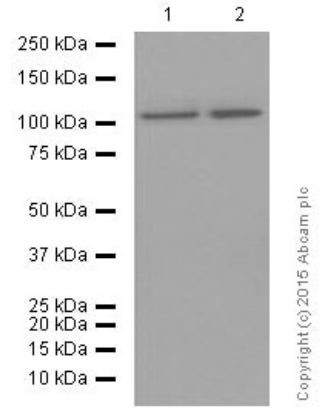
Flow Cytometry (Intracellular) - Anti-USP11 antibody [EPR4346] (ab109232)

Overlay histogram showing Jurkat cells fixed in 4% PFA and stained with purified ab109232 at a dilution of 1 in 950 (red line). The secondary antibody used was FITC goat anti-rabbit at a dilution of 1 in 500. Rabbit monoclonal IgG was used as an isotype control (black line) and cells incubated in the absence of both primary and secondary antibody were used as a negative control (blue line).



Immunoprecipitation - Anti-USP11 antibody [EPR4346] (ab109232)

ab109232 (purified) at 1/300 immunoprecipitating USP11 in 10 µg HEK293 (Lanes 1 and 2, observed at 110 kDa). Lane 3 - PBS. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500). Blocking buffer and concentration: 5% NFDM/TBST Dilution buffer and concentration: 5% NFDM/TBST



Western blot - Anti-USP11 antibody [EPR4346] (ab109232)

All lanes : Anti-USP11 antibody [EPR4346] (ab109232) at 1/5000 dilution (purified)

Lane 1 : mouse brain lysate

Lane 2 : rat brain lysate

Lysates/proteins at 20 µg per lane.

Secondary

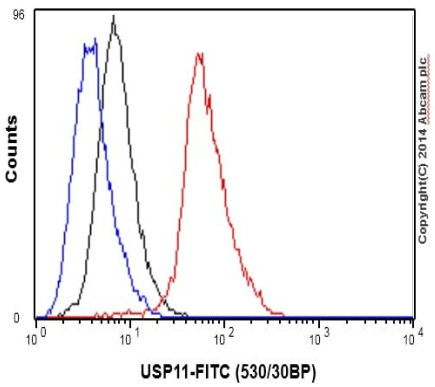
All lanes : HRP goat anti-rabbit IgG (H+L) at 1000 µg

Predicted band size: 110 kDa

Observed band size: 110 kDa

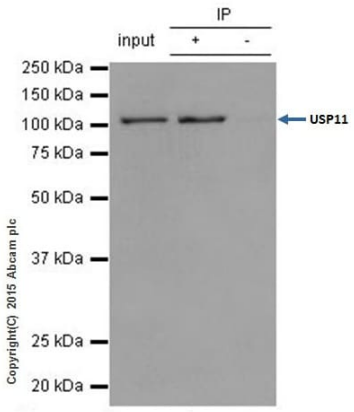
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



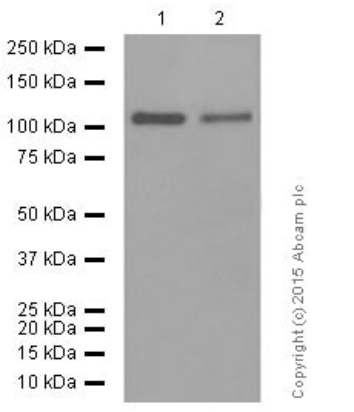
Flow Cytometry (Intracellular) - Anti-USP11 antibody [EPR4346] (ab109232)

Intracellular Flow Cytometry analysis of 2% paraformaldehyde fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling USP11 with unpurified ab109232 at 1/570 dilution (red line). Secondary antibody used is a goat anti rabbit IgG (FITC) at 1/150 dilution. The isotype control is rabbit monoclonal IgG (black line). The unlabeled control is cells without incubation with primary and secondary antibodies (blue line).



Immunoprecipitation - Anti-USP11 antibody [EPR4346] (ab109232)

ab109232 (purified) at 1/300 immunoprecipitating USP11 in 10 µg Jurkat (Lanes 1 and 2, observed at 110 kDa). Lane 3 - PBS. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500). Blocking buffer and concentration: 5% NFDM/TBST Dilution buffer and concentration: 5% NFDM/TBST



Western blot - Anti-USP11 antibody [EPR4346] (ab109232)

All lanes : Anti-USP11 antibody [EPR4346] (ab109232) at 1/5000 dilution (purified)

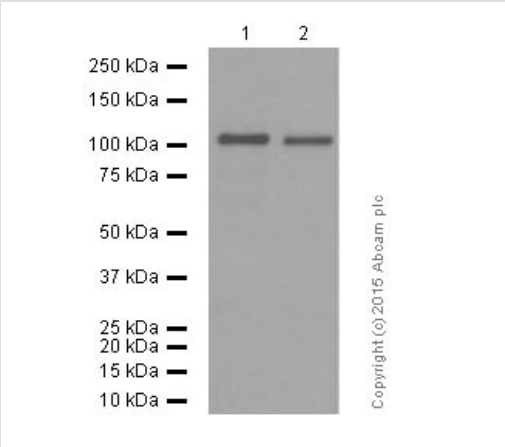
Lane 1 : HEK293 lysate at 20 µg
Lane 2 : human fetal kidney lysate

Secondary
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 110 kDa
Observed band size: 110 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-USP11 antibody [EPR4346] (ab109232)

All lanes : Anti-USP11 antibody [EPR4346] (ab109232) at 1/1000 dilution (purified)

Lane 1 : Jurkat lysate
Lane 2 : human testis lysate

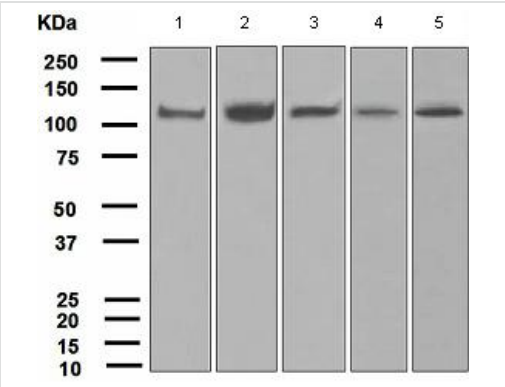
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 110 kDa
Observed band size: 110 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-USP11 antibody [EPR4346] (ab109232)

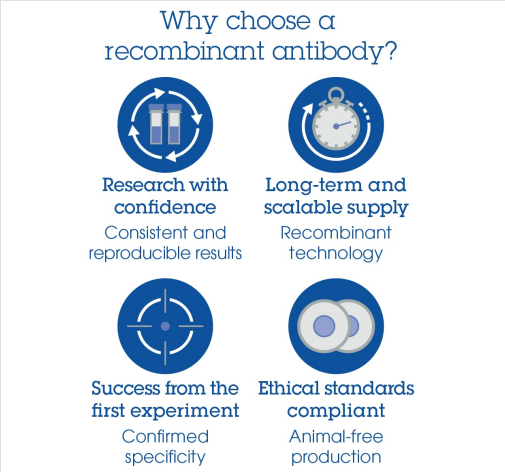
All lanes : Anti-USP11 antibody [EPR4346] (ab109232) at 1/1000 dilution (unpurified)

Lane 1 : 293T cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : Human testis cell lysate
Lane 4 : Huma fetal kidney cell lysate
Lane 5 : LnCaP cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 110 kDa
Observed band size: 110 kDa



Anti-USP11 antibody [EPR4346] (ab109232)

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