abcam

Product datasheet

Anti-USP13 antibody [EPR4348] ab109264

KO VALIDATED Recombinant RabMAb

2 Abreviews 7 References 6 Images

Overview

Product name	Anti-USP13 antibody [EPR4348]
Description	Rabbit monoclonal [EPR4348] to USP13
Host species	Rabbit
Tested applications	**Suitable for:** WB, Flow Cyt (Intra), ICC/IF **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	SH SY5Y, HepG2 and A375 cell lysates This antibody gave a positive result when used in the following methanol fixed cell lines: MCF-7.
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**. Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR4348
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109264 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 97 kDa (predicted molecular weight: 97 kDa).
Flow Cyt (Intra)		1/940 - 1/9400. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 10 µg/ml.

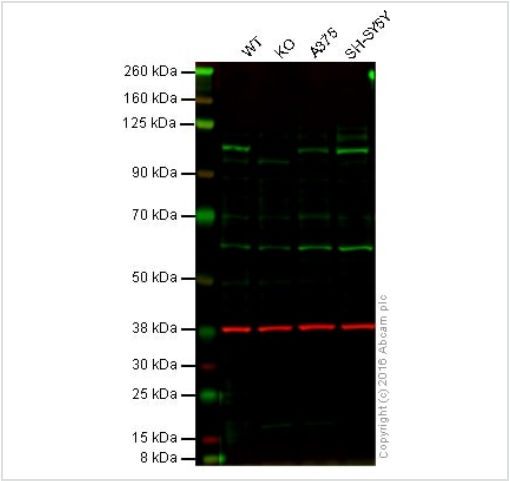
Application notes Is unsuitable for IHC-P.

Target

Tissue specificity Highly expressed in ovary and testes.

Sequence similarities Belongs to the peptidase C19 family.
Contains 2 UBA domains.
Contains 1 UBP-type zinc finger.

Images

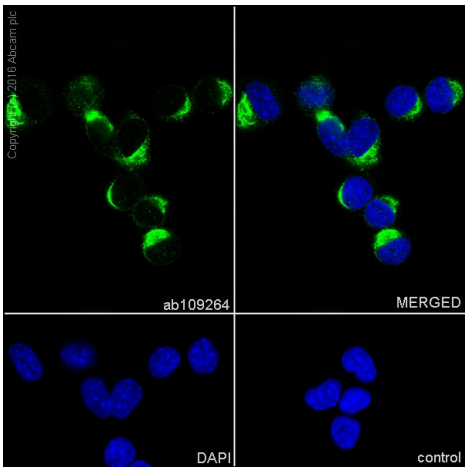


Western blot - Anti-USP13 antibody [EPR4348] (ab109264)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: USP13 knockout HAP1 cell lysate (20 µg)
Lane 3: A375 cell lysate (20 µg)
Lane 4: SH-SY5Y cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab109264 observed at 100 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

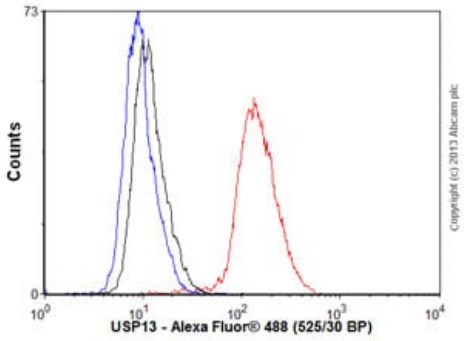
ab109264 was shown to recognize USP13 when USP13 knockout samples were used, along with additional cross-reactive bands. Wild-type and USP13 knockout samples were subjected to SDS-PAGE. ab109264 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/10 000 respectively and incubated overnight 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.



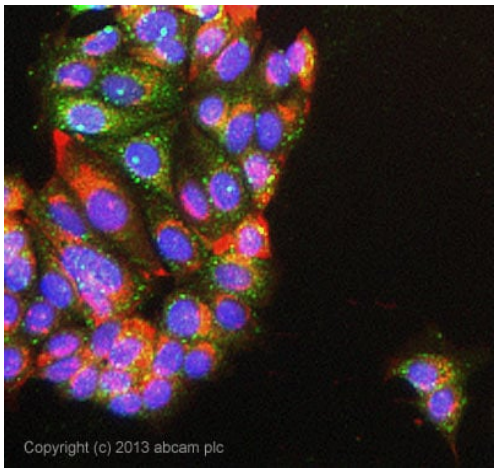
Immunocytochemistry/ Immunofluorescence - Anti-USP13 antibody [EPR4348] (ab109264)

Immunocytochemistry/Immunofluorescence analysis of Neuro-2a (Mouse neuroblastoma cell line) labeling USP13 with Purified ab109264 at 1/500 dilution (5 µg/ml). Cells were fixed with 100% methanol. **ab150077** Goat anti rabbit IgG(Alexa Fluor® 488) at 1/1000 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.



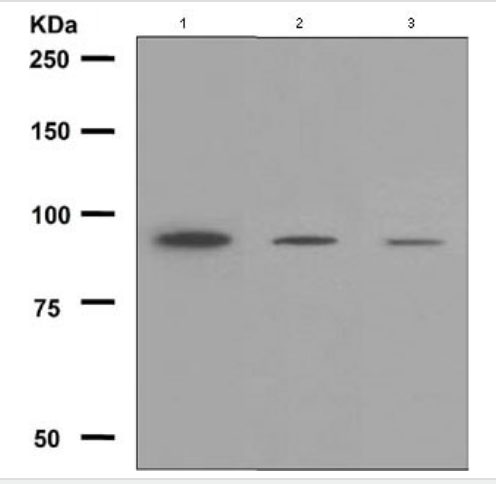
Flow Cytometry (Intracellular) - Anti-USP13 antibody [EPR4348] (ab109264)

Overlay histogram showing SHSY-5Y cells stained with ab109264 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab109264, 1/9400 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (**ab150077**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in SHSY-5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunocytochemistry/ Immunofluorescence - Anti-USP13 antibody [EPR4348] (ab109264)

ICC/IF image of ab109264 stained MCF-7 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab109264 at 10µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Western blot - Anti-USP13 antibody [EPR4348] (ab109264)

All lanes : Anti-USP13 antibody [EPR4348] (ab109264) at 1/1000 dilution

Lane 1 : SH SY5Y cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : A375 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 97 kDa
Observed band size: 97 kDa

Anti-USP13 antibody [EPR4348] (ab109264)

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