

### Anti-USP13 antibody [EPR4348] ab109264

KO 評価済 リコンビナント RabMAb

★★★★☆ 2 Abreviews 7 References 画像数 6

#### 製品の概要

製品名	Anti-USP13 antibody [EPR4348]
製品の詳細	Rabbit monoclonal [EPR4348] to USP13
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, Flow Cyt (Intra), ICC/IF <b>適用なし:</b> IHC-P
種交差性	<b>交差種:</b> Mouse, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	SH SY5Y, HepG2 and A375 cell lysates This antibody gave a positive result when used in the following methanol fixed cell lines: MCF-7.
特記事項	<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> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
精製度	Protein A purified

ポリクローナル	モノクローナル
クローン名	EPR4348
アイソタイプ	IgG

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab109264の使用に適用されず**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

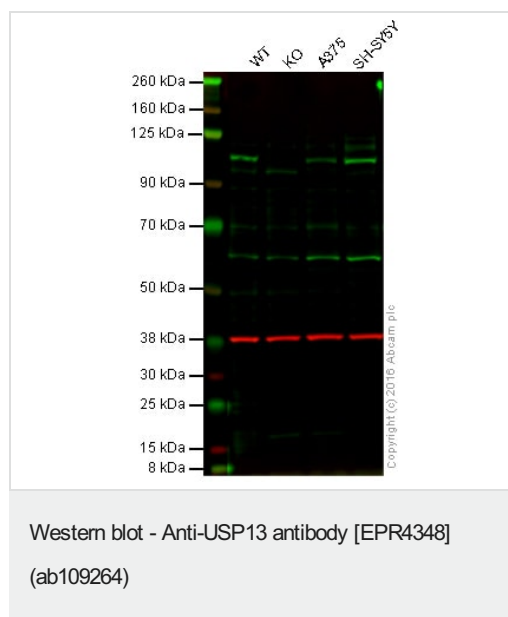
アプリケーション	Abreviews	特記事項
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 97 kDa (predicted molecular weight: 97 kDa).
Flow Cyt (Intra)		1/940 - 1/9400. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 10 µg/ml.

**追加情報** Is unsuitable for IHC-P.

## ターゲット情報

**組織特異性** Highly expressed in ovary and testes.  
**配列類似性** Belongs to the peptidase C19 family.  
 Contains 2 UBA domains.  
 Contains 1 UBP-type zinc finger.

## 画像



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

**Lane 2:** USP13 knockout HAP1 cell lysate (20 µg)

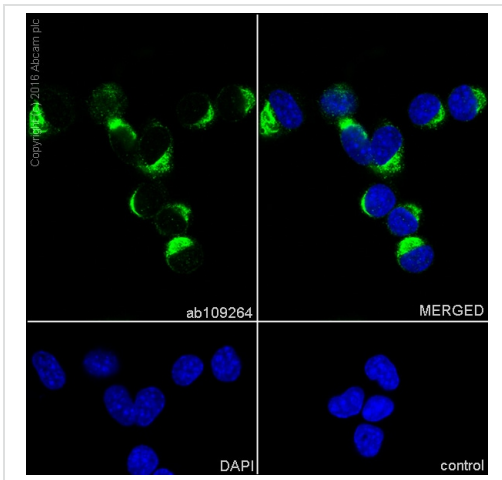
**Lane 3:** A375 cell lysate (20 µg)

**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.

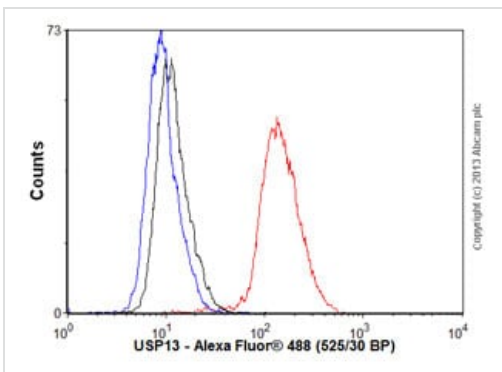
ab109264 was shown to recognize USP13 when USP13 knockout samples were used, along with additional cross-reactive bands. Wild-type and USP13 knockout samples were subjected to SDS-PAGE. ab109264 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/10 000 respectively and incubated overnight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



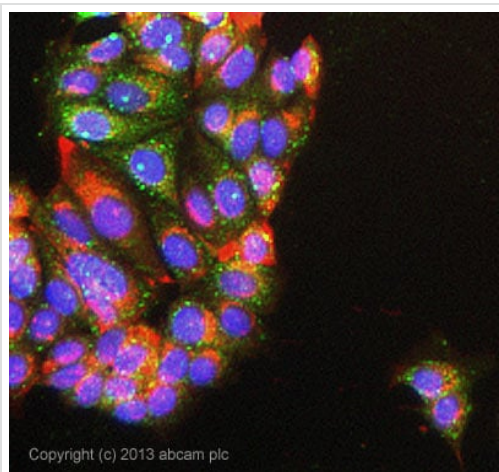
Immunocytochemistry/ Immunofluorescence - Anti-USP13 antibody [EPR4348] (ab109264)

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.



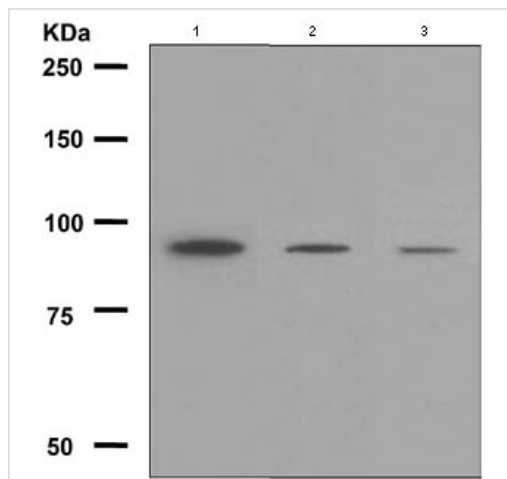
Flow Cytometry (Intracellular) - Anti-USP13 antibody [EPR4348] (ab109264)

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<sup>6</sup> 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

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-USP13 antibody [EPR4348] (ab109264)

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