abcam

Product datasheet

Anti-USP9x antibody [EPR13809(B)] - N-terminal ab180191

敲除验证 重组 RabMAb

1 Abreviews 4 References 10 图像

概述

产品名称	Anti-USP9x抗体[EPR13809(B)] - N-terminal
描述	兔单克隆抗体[EPR13809(B)] to USP9x - N-terminal
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), IHC-P, WB, ICC/IF, IP
种属反应性	**与反应:** Mouse, Human **预测可用于:** Rat
免疫原	Synthetic peptide within Human USP9x aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: **Q93008**
阳性对照	WB: HeLa, Hap1, T84, NIH3T3, Jurkat and HepG2 cell lysates. IHC-P: Human kidney and testis tissues. IP: HeLa and NIH3T3 cell lysates. Flow Cyt (intra): Jurkat cells. ICC/IF: HeLa cells.
常规说明	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**.

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR13809(B)
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab180191于以下的经测试应用**

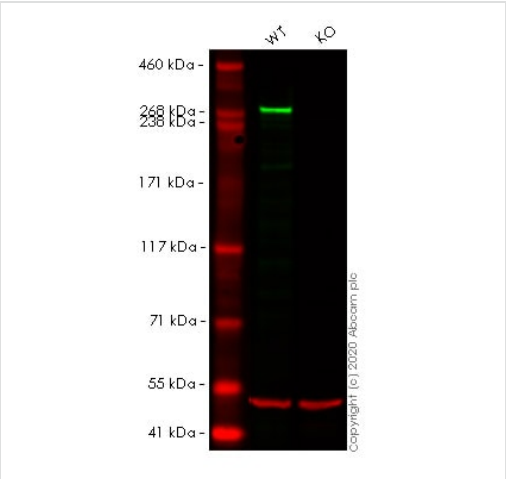
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Antigen retrieval is recommended.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 292 kDa.
ICC/IF		1/100 - 1/250.
IP		1/20.

靶标

功能	Deubiquitinase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. May therefore play an important role regulatory role at the level of protein turnover by preventing degradation of proteins through the removal of conjugated ubiquitin. Essential component of TGF-beta/BMP signaling cascade. Regulates chromosome alignment and segregation in mitosis by regulating the localization of BIRC5/survivin to mitotic centromeres. Specifically hydrolyzes both 'Lys-29'- and 'Lys-33'-linked polyubiquitins chains. Specifically deubiquitinates monoubiquitinated SMAD4, opposing the activity of E3 ubiquitin-protein ligase TRIM33.
组织特异性	Widely expressed in embryonic and adult tissues.
序列相似性	Belongs to the peptidase C19 family.
细胞定位	Cytoplasm.

图片



Western blot - Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191)

All lanes : Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : USP9X knockout HeLa cell lysate

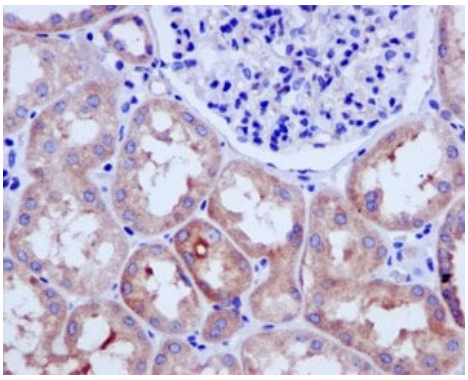
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 292 kDa
Observed band size: 290 kDa

Lanes 1- 2: Merged signal (red and green). Green - ab180191 observed at 290 kDa. Red - Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) observed at 50 kDa.

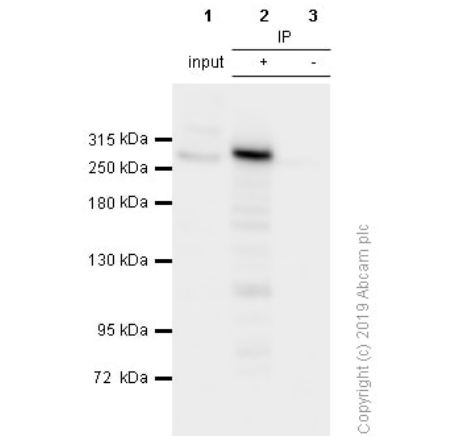
ab180191 was shown to react with USP9x in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line **ab265665** (knockout cell lysate **ab257790**) was used. Wild-type HeLa and USP9X knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab180191 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. 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 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191)

Immunohistochemical analysis of paraffin embedded Human kidney tissue labeling USP9x with ab180191 at 1/50.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

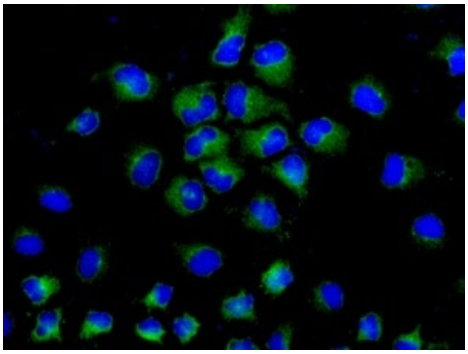


Immunoprecipitation - Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191)

ab180191 (purified) at 1/20 dilution immunoprecipitating ETS2 in HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg.
Lane 1 (input): HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg
Lane 2 (+): ab180191 & HeLa whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab180191 in HeLa whole cell lysate

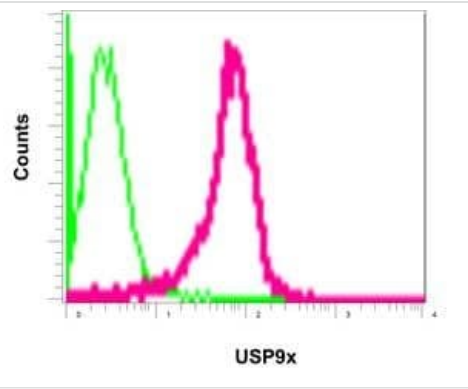
For western blotting, ab180191 at 1/500 dilution (0.23 µg/mL) and veriBlot for IP secondary antibody (HRP) (**ab131366**) at 1/1000 dilution was used.

Blocking and diluting buffer: 5% NFDM /TBST.



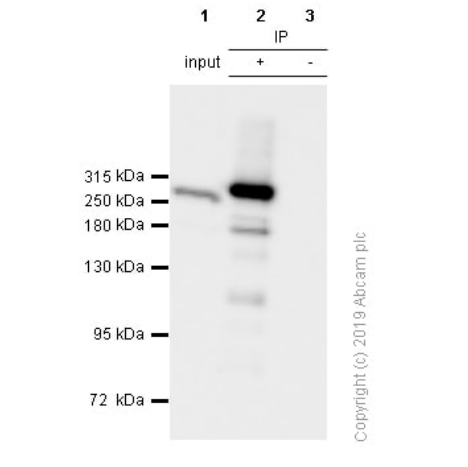
Immunocytochemistry/ Immunofluorescence - Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191)

Immunofluorescent analysis of HeLa cells labeling USP9x with ab180191 at 1/100 (green) and DAPI staining (blue).



Flow Cytometry (Intracellular) - Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191)

Intracellular flow cytometrical analysis of permeabilized Jurkat cells labeling USP9x with ab180191 at 1/10 (red) or a rabbit IgG negative (green).



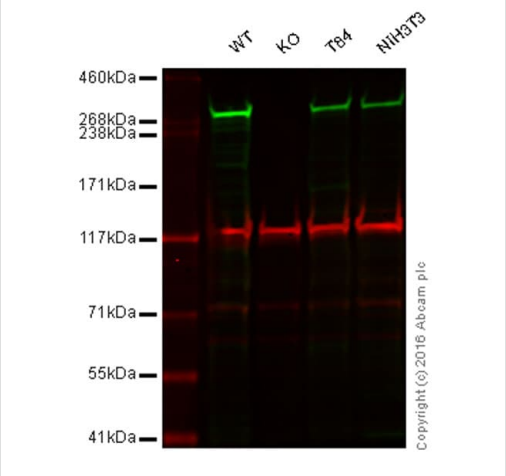
Immunoprecipitation - Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191)

ab180191 (purified) at 1/20 dilution immunoprecipitating ETS2 in NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate 10 µg.

Lane 1 (input): NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate 10 µg.
Lane 2 (+): ab180191 & NIH/3T3 whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab180191 in NIH/3T3 whole cell lysate

For western blotting, ab180191 at 1/500 dilution (0.23 µg/mL) and veriBlot for IP secondary antibody (HRP) (**ab131366**) at 1/1000 dilution was used.

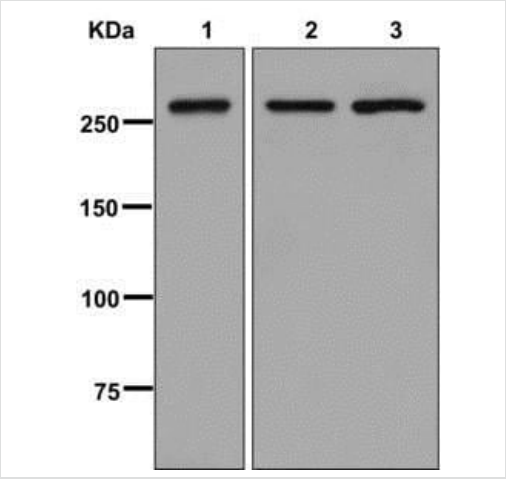
Blocking and diluting buffer: 5% NFDM /TBST.



Western blot - Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: USP9x knockout HAP1 cell lysate (20 µg)
Lane 3: T84 cell lysate (20 µg)
Lane 4: NIH3T3 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab180191 observed at 270 kDa. Red - loading control, **ab18058**, observed at 117 kDa.

ab180191 was shown to specifically react with USP9x when USP9x knockout samples were used. Wild-type and USP9x knockout samples were subjected to SDS-PAGE. ab180191 and **ab18058** (loading control to Vinculin) were diluted at 1 µg/ml 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 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191)

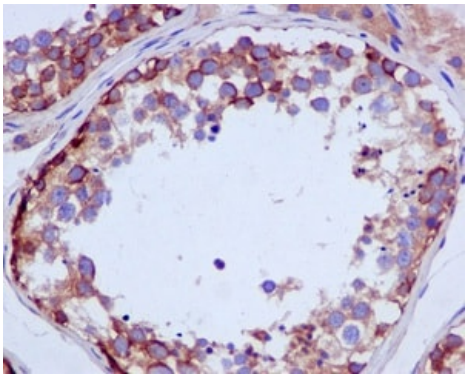
All lanes : Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191) at 1/1000 dilution

Lane 1 : Jurkat cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

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

Predicted band size: 292 kDa



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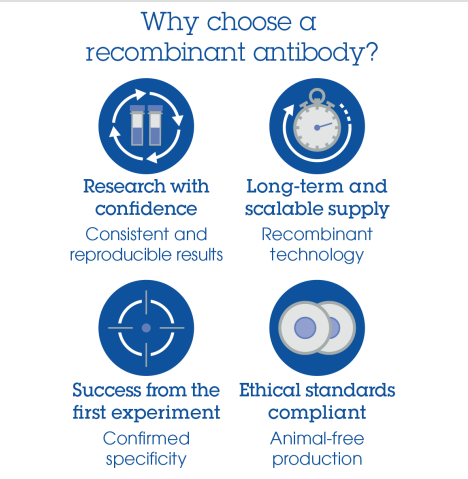
Immunohistochemical analysis of paraffin embedded Human testis tissue labeling USP9x with ab180191 at 1/50.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Anti-USP9x antibody [EPR13809(B)] - N-terminal (ab180191)

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