abcam

Product datasheet

Anti-USP22 antibody [EPR18945] ab195289

KO 評価済 リコンビナント RabMAb

1 Abreviews 24 References 画像数 12

製品の概要

製品名	Anti-USP22 antibody [EPR18945]
製品の詳細	Rabbit monoclonal [EPR18945] to USP22
由来種	Rabbit
アプリケーション	**適用あり:** IHC-P, WB, IP
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human fetal liver, fetal heart and fetal kidney lysates; HeLa, HEK-293, Jurkat, HepG2, MCF7, Neuro-2a, F9, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Mouse brain and spleen lysates; Rat brain and spleen lysates. IP: HeLa whole cell lysate. IHC-P: Human, mouse and rat cerebrum tissue; Human breast carcinoma tissue.
特記事項	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**.

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR18945

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ab195289の使用に適用されます**

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
IHC-P		1/1000.
WB		1/2000. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).
IP		1/40.

ターゲット情報

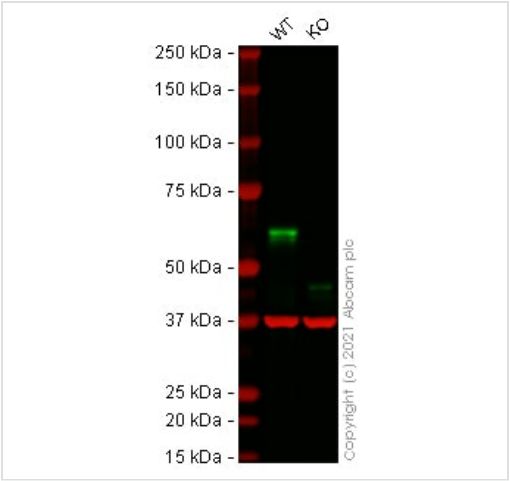
機能 Histone deubiquitinating component of the transcription regulatory histone acetylation (HAT) complex SAGA. Catalyzes the deubiquitination of both histones H2A and H2B, thereby acting as a coactivator. Recruited to specific gene promoters by activators such as MYC, where it is required for transcription. Required for nuclear receptor-mediated transactivation and cell cycle progression.

組織特異性 Moderately expressed in various tissues including heart and skeletal muscle, and weakly expressed in lung and liver.

配列類似性 Belongs to the peptidase C19 family. UBP8 subfamily.
Contains 1 UBP-type zinc finger.

細胞内局在 Nucleus.

画像



Western blot - Anti-USP22 antibody [EPR18945] (ab195289)

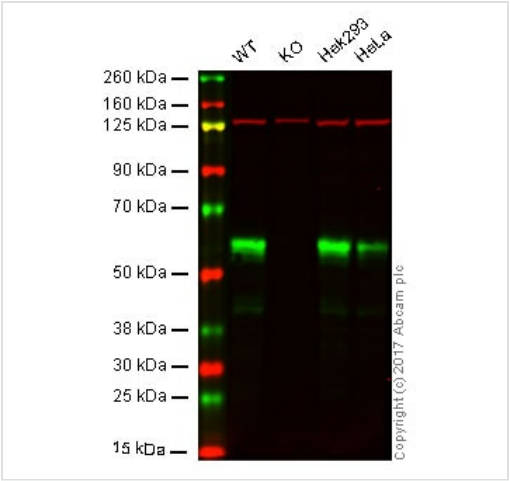
All lanes : Anti-USP22 antibody [EPR18945] (ab195289) at 1/2000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : USP22 knockout HeLa cell lysate

Performed under reducing conditions.

Predicted band size: 60 kDa
Observed band size: 59 kDa

False colour image of Western blot: Anti-USP22 antibody [EPR18945] staining at 1/2000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab195289 was shown to bind specifically to USP22. A band was observed at 59 kDa in wild-type HeLa cell lysates with no signal observed at this size in usp22 knockout cell line **ab264888** (knockout cell lysate **ab257789**). To generate this image, wild-type and usp22 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged.Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.

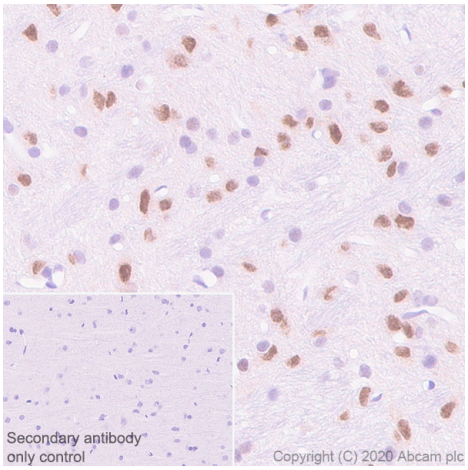


Western blot - Anti-USP22 antibody [EPR18945] (ab195289)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: USP22 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HEK293 whole cell lysate (20 µg)
Lane 4: HeLa whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab195289 observed at 60 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab195289 was shown to specifically react with USP22 in wild-type HAP1 cells. No band was observed when knockout samples were examined. Wild-type and USP22 knockout samples were subjected to SDS-PAGE. Ab195289 and **ab9484** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at a 1/2000 dilution and 1/20,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1/20,000 dilution for 1 hour at room temperature before imaging.

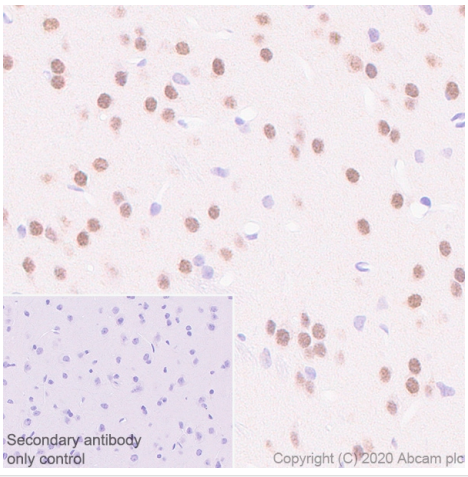


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP22 antibody [EPR18945] (ab195289)

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling USP22 with ab195289 at 1/1000 followed by a Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use. Nuclear staining on rat cerebrum. The section was incubated with ab195289 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use.

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins

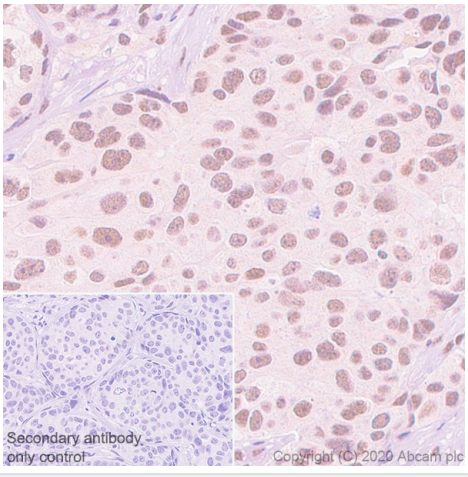


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP22 antibody [EPR18945] (ab195289)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling USP22 with ab195289 at 1/1000 followed by a Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use. Nuclear staining on mouse cerebrum. The section was incubated with ab195289 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use.

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins

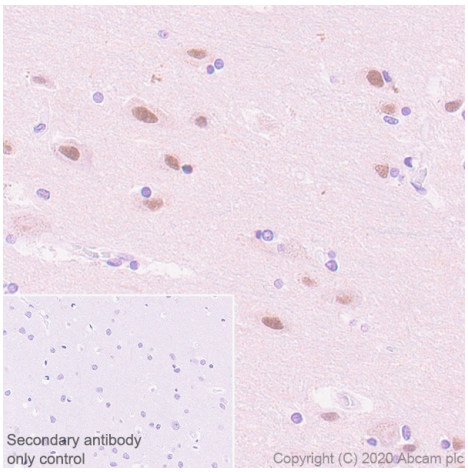


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP22 antibody [EPR18945] (ab195289)

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling USP22 with ab195289 at 1/100 followed by a Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at Ready to use dilution. Nuclear staining on human breast carcinoma. The section was incubated with ab195289 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

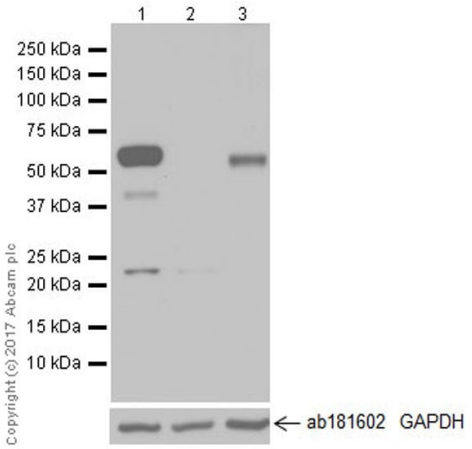


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP22 antibody [EPR18945] (ab195289)

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling USP22 with ab195289 at 1/100 followed by a Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use. Nuclear staining on human cerebrum. The section was incubated with ab195289 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use.

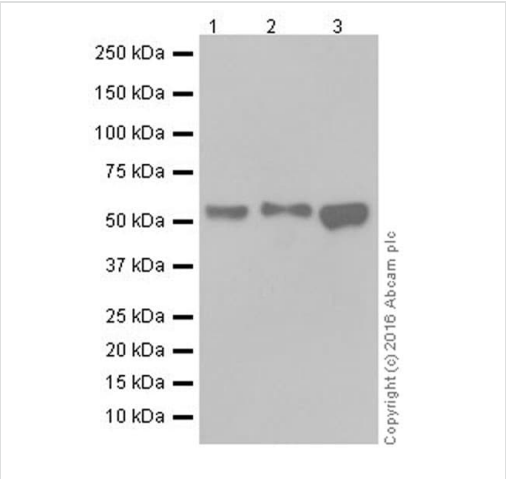
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Western blot - Anti-USP22 antibody [EPR18945] (ab195289)

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: USP22 knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate (20 µg)

ab195289 was shown to specifically recognize USP22 when USP22 knockout samples were used. Wild-type and knockout samples were subjected to SDS-PAGE. ab195289 (1/2000) and **ab181602** (Rabbit anti GAPDH loading control) were incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100,000 dilution.



Western blot - Anti-USP22 antibody [EPR18945] (ab195289)

All lanes : Anti-USP22 antibody [EPR18945] (ab195289) at 1/2000 dilution

Lane 1 : Human fetal liver lysate
Lane 2 : Human fetal heart lysate
Lane 3 : Human fetal kidney lysate

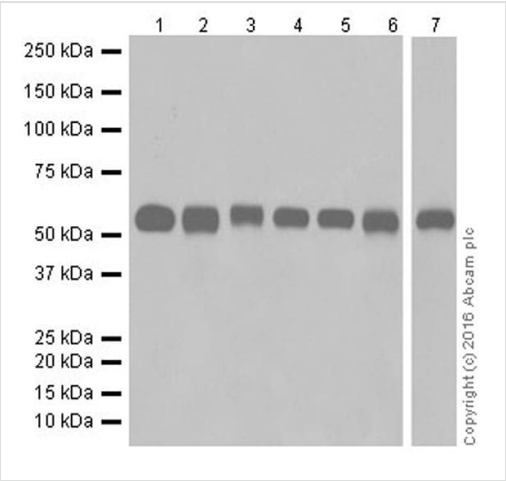
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 60 kDa
Observed band size: 60 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-USP22 antibody [EPR18945] (ab195289)

All lanes : Anti-USP22 antibody [EPR18945] (ab195289) at 1/2000 dilution

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 2 : HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate
Lane 3 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate
Lane 4 : HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 5 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate
Lane 6 : Neuro-2a (Mouse neuroblastoma cell line) whole cell lysate
Lane 7 : F9 (Mouse embryonic testicular cancer cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

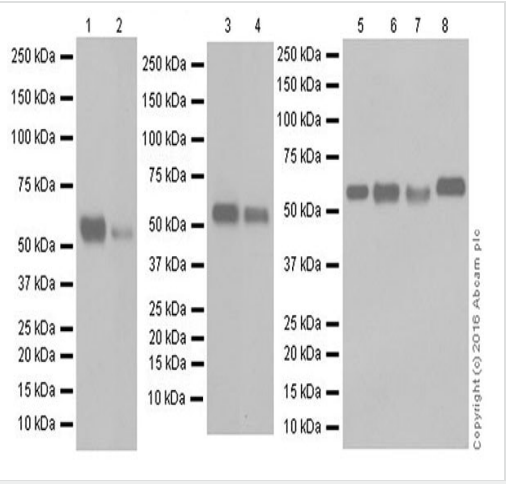
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at

1/100000 dilution

Predicted band size: 60 kDa
Observed band size: 60 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1, 2, 3, 4, 5 and 6: 30 seconds; Lane 7: 15 seconds.



Western blot - Anti-USP22 antibody [EPR18945] (ab195289)

All lanes : Anti-USP22 antibody [EPR18945] (ab195289) at 1/2000 dilution

Lane 1 : Mouse brain lysate
Lane 2 : Mouse spleen lysate
Lane 3 : Rat brain lysate
Lane 4 : Rat spleen lysate
Lane 5 : C6 (Rat glial tumor cell line) whole cell lysate
Lane 6 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate
Lane 7 : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate
Lane 8 : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

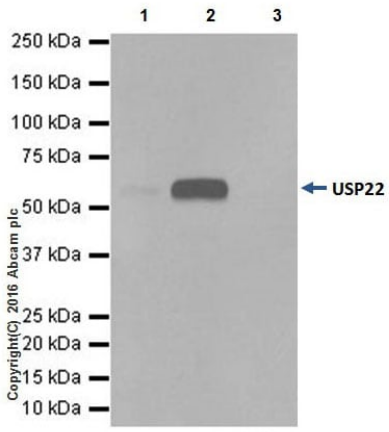
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 60 kDa
Observed band size: 60 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1, 2, 3 and 4: 3 minutes; Lane 5, 6, 7 and 8: 30 seconds.



Immunoprecipitation - Anti-USP22 antibody [EPR18945] (ab195289)

USP22 was immunoprecipitated from 0.35 mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab195289 at 1/40 dilution. Western blot was performed from the immunoprecipitate using ab195289 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: HeLa whole cell lysate, 10µg (Input).

Lane 2: ab195289 IP in HeLa whole cell lysate.

Lane 3: Rabbit IgG,monoclonal [EPR25A]- Isotype Control (**ab172730**) instead of ab195289 in HeLa whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 seconds.

Anti-USP22 antibody [EPR18945] (ab195289)

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