abcam

Product datasheet

Anti-MYSM1 antibody [EPR18657] ab193081

KO 評価済 リコンビナント RabMAb

1 Abreviews 4 References 画像数 6

製品の概要

製品名	Anti-MYSM1 antibody [EPR18657]
製品の詳細	Rabbit monoclonal [EPR18657] to MYSM1
由来種	Rabbit
アプリケーション	**適用あり:** 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: HeLa, HEK-293, HepG2, NCCIT, K562, RAW 264.7, PC-12, NIH/3T3 and mESC whole cell lysates. Wild-type HEK-293T cell lysate. IP: HeLa whole cell lysate.
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, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR18657
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ab193081の使用に適用されます

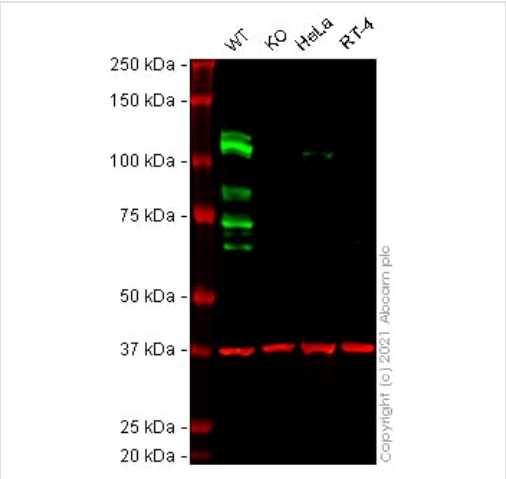
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 66, 95 kDa (predicted molecular weight: 66, 95 kDa).
IP		1/100.

ターゲット情報

機能	Metalloprotease that specifically deubiquitinates monoubiquitinated histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Preferentially deubiquitinates monoubiquitinated H2A in hyperacetylated nucleosomes. Deubiquitination of histone H2A leads to facilitate the phosphorylation and dissociation of histone H1 from the nucleosome. Acts as a coactivator by participating in the initiation and elongation steps of androgen receptor (AR)-induced gene activation.
配列類似性	Belongs to the peptidase M67A family. MYSM1 subfamily. Contains 1 MPN (JAB/Mov34) domain. Contains 1 SANT domain. Contains 1 SWIRM domain.
ドメイン	Binds double-stranded DNA via the SANT domain. The SWIRM domain does not bind double-stranded DNA.
翻訳後修飾	Phosphorylated upon DNA damage, probably by ATM or ATR.
細胞内局在	Nucleus.

画像



Western blot - Anti-MYSM1 antibody [EPR18657] (ab193081)

All lanes : Anti-MYSM1 antibody [EPR18657] (ab193081) at 1/1000 dilution

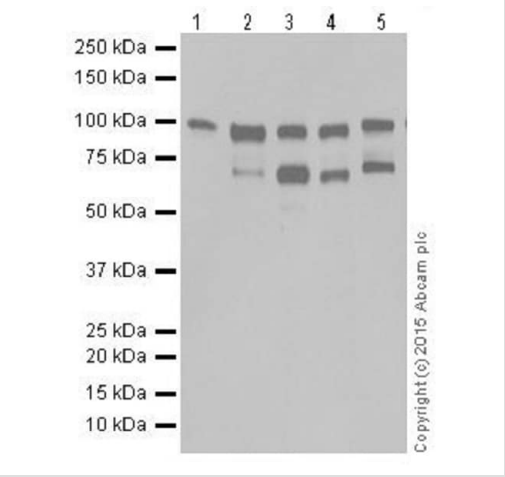
Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : MYSM1 knockout HEK-293T cell lysate
Lane 3 : HeLa cell lysate
Lane 4 : RT-4 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 66, 95 kDa
Observed band size: 110 kDa

False colour image of Western blot: Anti-MYSM1 antibody [EPR18657] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab193081 was shown to bind specifically to MYSM1. A band was observed at 110 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in MYSM1 knockout cell line **ab267297** (knockout cell lysate **ab257548**). To generate this image, wild-type and MYSM1 knockout HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) 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-MYSM1 antibody [EPR18657] (ab193081)

All lanes : Anti-MYSM1 antibody [EPR18657] (ab193081) at 1/1000 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 : NCCIT (Human pluripotent embryonic carcinoma cell line) whole cell lysate
Lane 5 : K562 (Human chronic myelogenous leukemia cell line from bone marrow) 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

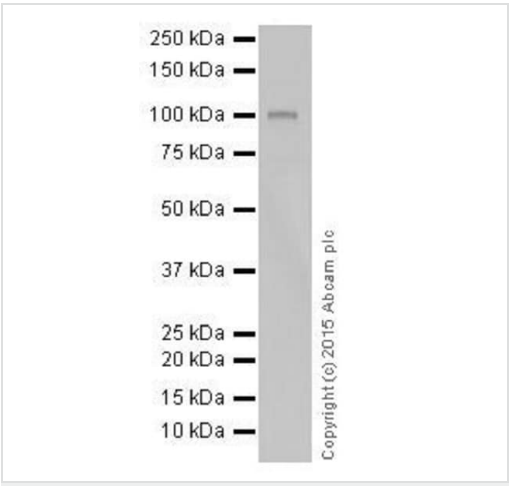
Developed using the ECL technique.

Predicted band size: 66, 95 kDa
Observed band size: 66,95 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.

Two bands detected represent two isoforms.



Western blot - Anti-MYSM1 antibody [EPR18657] (ab193081)

Anti-MYSM1 antibody [EPR18657] (ab193081) at 1/1000 dilution + mESC (Mouse embryonic stem cell line) whole cell lysate at 20 µg

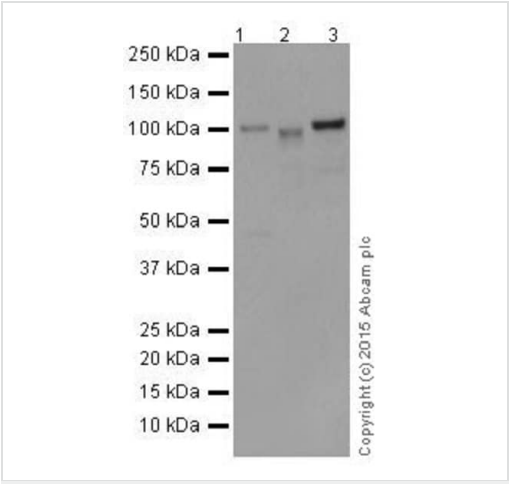
Secondary
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 66, 95 kDa
Observed band size: 95 kDa

Exposure time: 8 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-MYSM1 antibody [EPR18657] (ab193081)

All lanes : Anti-MYSM1 antibody [EPR18657] (ab193081) at 1/1000 dilution

Lane 1 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate
Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate
Lane 3 : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

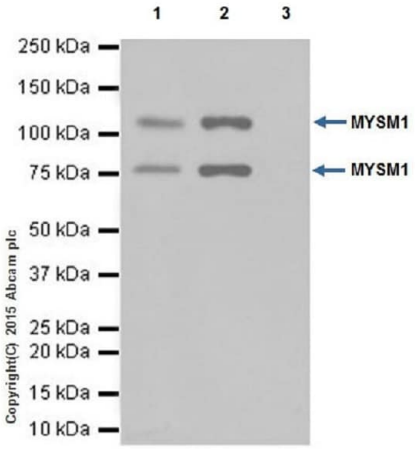
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 66, 95 kDa
Observed band size: 95 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunoprecipitation - Anti-MYSM1 antibody [EPR18657] (ab193081)

MYSM1 was immunoprecipitated from 1mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab193081 at 1/100 dilution. Western blot was performed from the immunoprecipitate using ab193081 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.
Lane 1: HeLa whole cell lysate 10µg (Input).
Lane 2: ab193081 IP in HeLa whole cell lysate.
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab193081 in HeLa whole cell lysate.

Predicted band size: 66kDa, 95kDa.

Observed band size: 66kDa, 95kDa.

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

Exposure time: 3 minutes.

Two bands detected represent two isoforms.

Anti-MYSM1 antibody [EPR18657] (ab193081)

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