abcam

Product datasheet

Anti-KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY antibody [EPR18653] - BSA and Azide free ab232318

Recombinant RabMAb

8 Images

Overview

Product name	Anti-KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY antibody [EPR18653] - BSA and Azide free
Description	Rabbit monoclonal [EPR18653] to KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB, ChIP, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: His-tagged human KDM5D recombinant protein fragment, aa1-200; His-tagged human KDM5C recombinant protein fragment, aa1-200; Jurkat, HeLa, HEL, MCF7, PC-12, NIH/3T3 and F9 whole cell lysates. IP: HeLa and F9 whole cell lysates. ChIP: Chromatin from HeLa cells. IHC-P: Human and rat stomach tissue. Mouse cerebrum tissue.
General notes	ab232318 is the carrier-free version of **ab194288**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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**.

Properties

Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18653
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab232318 in the following tested applications.

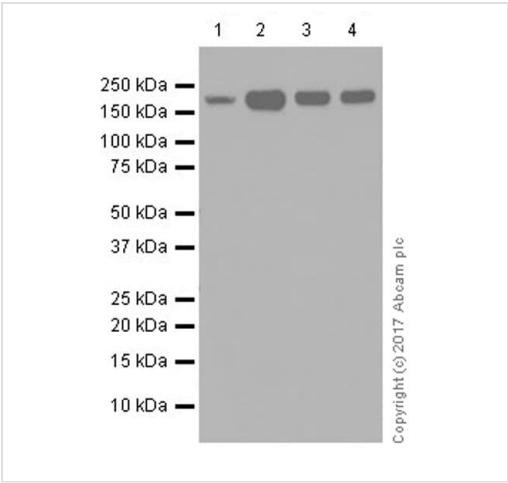
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 174 kDa (predicted molecular weight: 174 kDa).
ChIP		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Cellular localization KDM5C / Jarid1C / SMCX: Nucleus. KDM5D / Jarid1D / SMCY: Nucleus.

Images



Western blot - Anti-KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY antibody [EPR18653] - BSA and Azide free (ab232318)

All lanes : Anti-KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY antibody [EPR18653] - ChIP Grade (**ab194288**) at 1/1000 dilution

Lane 1 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate
Lane 2 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 3 : HEL (Human bone marrow erythroleukemia cell line) whole cell lysate
Lane 4 : MCF7 (Human breast adenocarcinoma 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

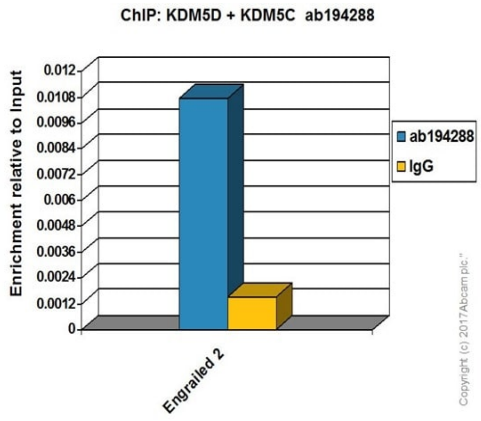
Predicted band size: 174 kDa
Observed band size: 174 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

WB detection of KDM5C + KDM5D in tissue lysates may need optimization. In our hands this antibody could not detect KDM5C + KDM5D in human tissue lysates in WB.

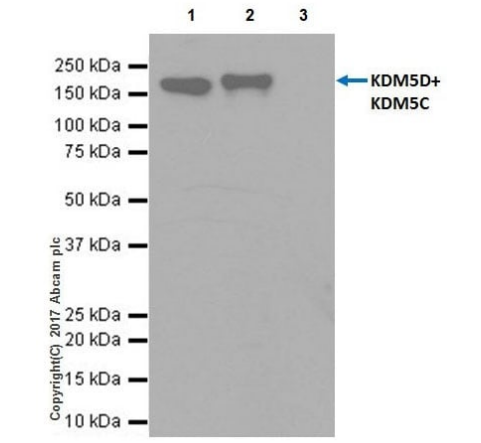
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab194288**).



ChIP - Anti-KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY antibody [EPR18653] - BSA and Azide free (ab232318)

Chromatin was prepared from HeLa (Human epithelial cell line from cervix adenocarcinoma) cells according to the Abcam X-ChIP protocol. Cells were fixed with formaldehyde for 10min. The ChIP was performed with 25µg of chromatin, 5µg of **ab194288** (blue), and 20µl of Anti-rabbit IgG sepharose beads. 5µg of rabbit normal IgG was added to the beads control (yellow). The immunoprecipitated DNA was quantified by real time PCR (SYBR approach). Primers are located in the first kb of the transcribed region.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab194288**).



Immunoprecipitation - Anti-KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY antibody [EPR18653] - BSA and Azide free (ab232318)

KDM5D + KDM5C was immunoprecipitated from 0.35 mg of F9 (Mouse embryonic testicular cancer cell line) whole cell lysate with **ab194288** at 1/50 dilution. Western blot was performed from the immunoprecipitate using **ab194288** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: F9 whole cell lysate 10 µg (Input).

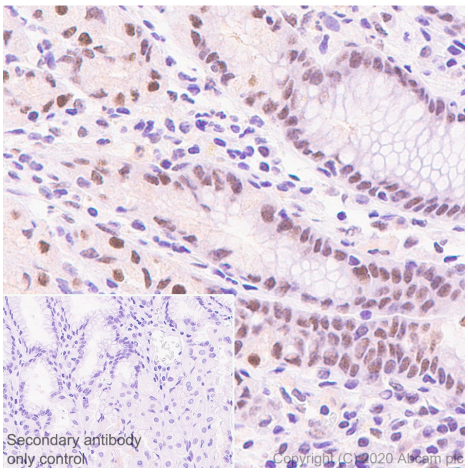
Lane 2: **ab194288** IP in F9 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab194288** in F9 whole cell lysate.

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

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab194288**).



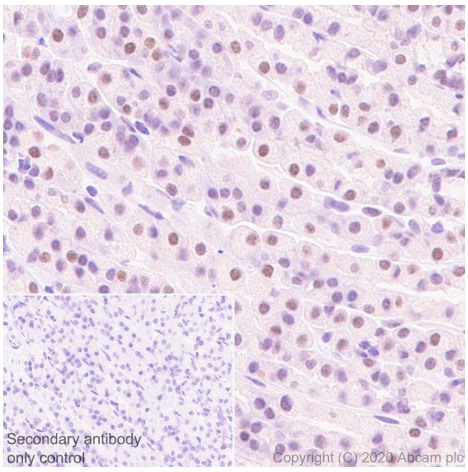
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY antibody [EPR18653] - BSA and Azide free (ab232318)

This data was developed using **ab194288**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling KDM5C / Jarid1C / SMCX+KDM5D / Jarid1D / SMCY with **ab194288** at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on human stomach. The section was incubated with **ab194288** for 30mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

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

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-KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY antibody [EPR18653] - BSA and Azide free (ab232318)

This data was developed using **ab194288**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat stomach tissue labeling KDM5C / Jarid1C / SMCX+KDM5D / Jarid1D / SMCY with **ab194288** at 1/1000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on rat stomach. The section was incubated with **ab194288** for 30mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

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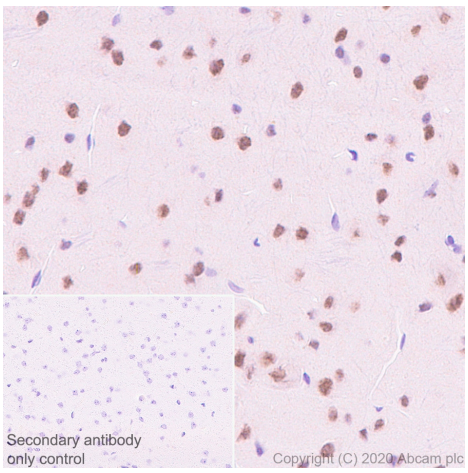

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Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling KDM5C / Jarid1C / SMCX+KDM5D / Jarid1D / SMCY with **ab194288** at 1/1000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on mouse cerebrum. The section was incubated with **ab194288** for 30mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

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

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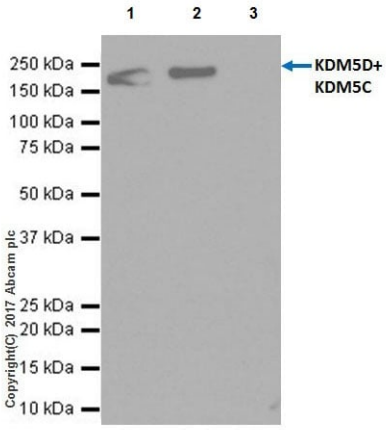

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Lane 2: **ab194288** IP in HeLa whole cell lysate.

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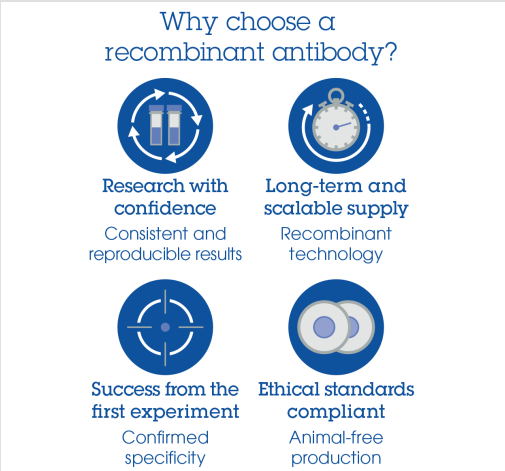

Anti-KDM5C / Jarid1C / SMCX + KDM5D / Jarid1D / SMCY antibody [EPR18653] - BSA and Azide free (ab232318)

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