abcam

ab271046

Anti-KDM3B / JMJD1B antibody [EPR24219-30]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR24219-30
Purification technique	Affinity purification Protein A
Specificity	This antibody does not react with Human species for IHC.
Concentration	0.482 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/5000
Notes	This antibody does not react with Human species for IHC.

Species	Rat
Dilution info	1/5000
Notes	This antibody does not react with Human species for IHC.

Not recommended

Species	Human
Dilution info	-
Notes	This antibody does not react with Human species for IHC.

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information KDM3B

Function	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Demethylation of Lys residue generates formaldehyde and succinate. May have tumor suppressor activity.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

ab271046 does not react with Human species for IHC application.
Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

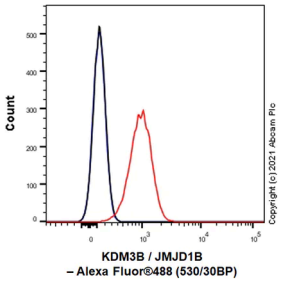
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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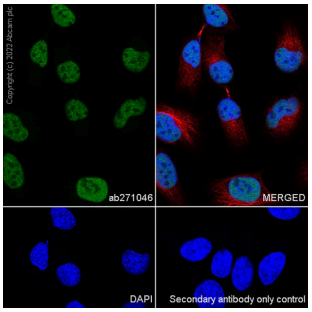
8 product images



Flow Cytometry (Intracellular) - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046)

KDM3B / JMJD1B Flow Cytometry (Intracellular) staining using rabbit Anti-KDM3B / JMJD1B antibody

Flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling KDM3B / JMJD1B with ab271046 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.

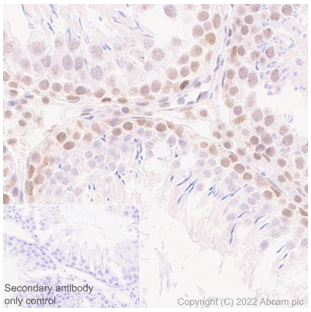


Immunocytochemistry/ Immunofluorescence - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046)

KDM3B / JMJD1B Immunocytochemistry/ Immunofluorescence staining of HeLa cells using rabbit Anti-KDM3B / JMJD1B antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa cells labeling KDM3B / JMJD1B with ab271046 at 1/500 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in HeLa cell line. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubµue Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

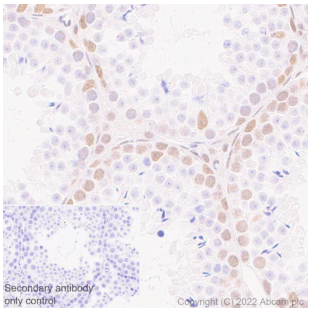
Secondary antibody only control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labelling KDM3B / JMJD1B with ab271046 at 1/5000 dilution followed by LeicaDS9800 (Bond™, Polymer Refine Detection). Positive staining on rat testis. The section was incubated with ab271046 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 LeicaDS9800 (Bond™, Polymer Refine Detection).

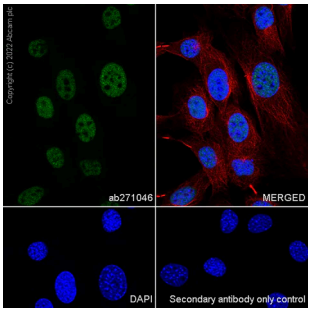
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labelling KDM3B / JMJD1B with ab271046 at 1/5000 dilution followed by LeicaDS9800 (Bond™, Polymer Refine Detection). Positive staining on mouse testis (PMID: 26681924). The section was incubated with ab271046 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 a LeicaDS9800 (Bond™, Polymer Refine Detection).

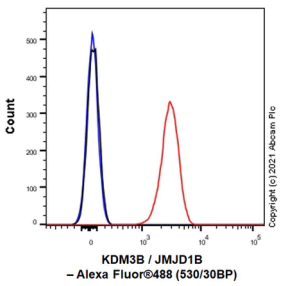
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Immunocytochemistry/ Immunofluorescence - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046)

KDM3B / JMJD1B Immunocytochemistry/ Immunofluorescence staining of NIH/3T3 cells using rabbit Anti-KDM3B / JMJD1B antibody

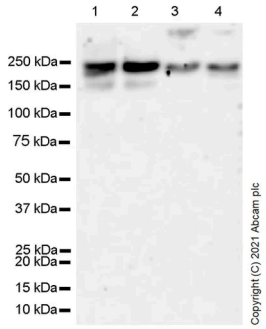
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 cells labeling KDM3B / JMJD1B with ab271046 at 1/500 dilution, followed by 150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in NIH/3T3 cell line. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046)

KDM3B / JMJD1B Flow Cytometry (Intracellular) staining using rabbit Anti-KDM3B / JMJD1B antibody

Flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized NIH/3T3 (Mouse embryonic fibroblast) cells labelling KDM3B / JMJD1B with ab271046 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046)

KDM3B / JMJD1B Western blot staining using rabbit Anti-KDM3B / JMJD1B antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Lysates were made freshly and used in WB immediately to minimize protein degradation.

Exposure time: 3 minutes

All lanes:
Western blot - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046) at 1/1000 dilution

Lane 1:
HeLa (human epithelial cell line from cervix adenocarcinoma), whole cell lysate at 20 µg

Lane 2:
293T (human embryonic kidney epithelial cell) whole cell lysate at 20 µg

Lane 3:
NIH/3T3 (mouse embryonic fibroblast), whole cell lysate at 20 µg

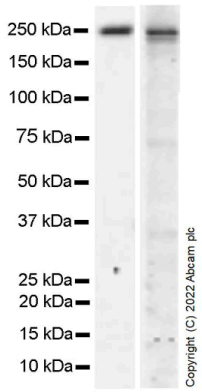
Lane 4:
PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 dilution

Predicted band size: 191 kDa

Observed band size: 220 kDa



Western blot - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046)

KDM3B / JMJD1B Western blot staining using rabbit Anti-KDM3B / JMJD1B antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Lysates were made freshly and used in WB immediately to minimize protein degradation.

This blot was developed using a higher sensitivity ECL substrate.

Exposure time: 3 minutes.

All lanes:
Western blot - Anti-KDM3B / JMJD1B antibody [EPR24219-30] (ab271046) at 1/1000 dilution

Lane 1:
Mouse testis tissue lysate at 20 µg

Lane 2:
Mouse placenta tissue lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 dilution

Predicted band size: 191 kDa

Observed band size: 220 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.