abcam

ab289673

Anti-KDM4D / JMJD2D antibody [EPR25241-24] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR25241-24
Purification technique	Affinity purification Protein A
Concentration	1.02 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-

Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

ChIP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information KDM4D

Function	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Demethylates both di- and trimethylated H3 'Lys-9' residue, while it has no activity on monomethylated residues. Demethylation of Lys residue generates formaldehyde and succinate.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab289673 is the carrier-free version of ab289667.

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.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

Compatibility

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.

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.

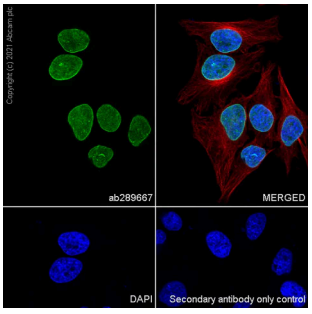
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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5 product images

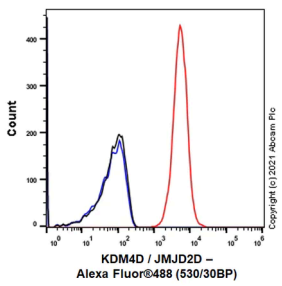


Immunocytochemistry/ Immunofluorescence - Anti-KDM4D / JMJD2D antibody [EPR25241-24] - BSA and Azide free (ab289673)

KDM4D / JMJD2D Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-KDM4D / JMJD2D antibody

This data was developed using ab289667, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa cells labeling KDM4D / JMJD2D with ab289667 at 1/500 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed secondary antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in HeLa cell line. The nuclear counterstain is DAPI (Blue). Tubulin is labeled using ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (Red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed secondary antibody at 1/1000 dilution.

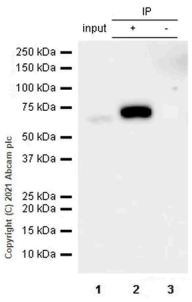


Flow Cytometry (Intracellular) - Anti-KDM4D / JMJD2D antibody [EPR25241-24] - BSA and Azide free (ab289673)

KDM4D / JMJD2D Flow Cytometry (Intracellular) staining using rabbit Anti-KDM4D / JMJD2D antibody

This data was developed using ab289667, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HeLa (human cervix adenocarcinoma epithelial cell line) cells labeling KDM4D / JMJD2D with ab289667 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081)at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-KDM4D / JMJD2D antibody [EPR25241-24] - BSA and Azide free (ab289673)

This data was developed using ab289667, the same antibody clone in a different buffer formulation.
KDM4D / JMJD2D was immunoprecipitated from HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate with ab289667 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed from the immunoprecipitate using ab289667 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366), was used as secondary antibody at 1/5000 dilution.

Lane 1: HeLa whole cell lysate 10 µg (Input).
Lane 2: ab289667 IP in HeLa whole cell lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab289667 in HeLa whole cell lysate.

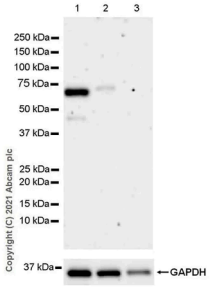
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

All lanes:
Immunoprecipitation - Anti-KDM4D / JMJD2D antibody [EPR25241-24] (ab289667)

Predicted band size: 59 kDa

Observed band size: 60 kDa

Exposure time: 10s



Western blot - Anti-KDM4D / JMJD2D antibody [EPR25241-24] - BSA and Azide free (ab289673)

KDM4D / JMJD2D Western blot staining using rabbit Anti-KDM4D / JMJD2D antibody

This data was developed using ab289667, the same antibody clone in a different buffer formulation.
5% NFDM/TBST was used as a dilution and blocking buffer.

Low expression: ovary, spleen (PMID: 21293030).

All lanes:
Western blot - Anti-KDM4D / JMJD2D antibody [EPR25241-24] (ab289667) at 1/1000 dilution

Lane 1:
Human testis tissue lysate at 20 µg

Lane 2:
Human ovary tissue lysate at 20 µg

Lane 3:
Human spleen tissue lysate at 20 µg

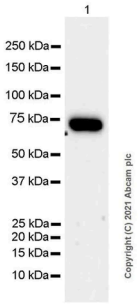
Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG (Merck DC03L) at 1/2000 dilution

Predicted band size: 59 kDa

Observed band size: 60 kDa

Exposure time: 3min



Western blot - Anti-KDM4D / JMJD2D antibody [EPR25241-24] - BSA and Azide free (ab289673)

KDM4D / JMJD2D Western blot staining of HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate using rabbit Anti-KDM4D / JMJD2D antibody

This data was developed using ab289667, the same antibody clone in a different buffer formulation.
Lysates were made freshly and used in the WB test immediately to minimize protein degradation.

Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-KDM4D / JMJD2D antibody [EPR25241-24] (ab289667) at 1/1000 dilution

All lanes:
HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

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

Predicted band size: 59 kDa

Observed band size: 60 kDa

Exposure time: 3min

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