

A6670

Leader in Biomolecular Solutions for Life Science



KDM4B/JMJD2B Rabbit mAb

Catalog No.: A6670

Recombinant

6 Publications

Basic Information

Observed MW

150kDa

Calculated MW

122kDa

Category

SMab Recombinant Monoclonal
Antibody

Applications

WB,IF/ICC,IP,ChIP,ELISA

Cross-Reactivity

Human,Mouse,Rat

CloneNo number

ARC1416

Background

Enables histone H3-methyl-lysine-36 demethylase activity and histone H3-methyl-lysine-9 demethylase activity. Involved in histone H3-K36 demethylation and histone H3-K9 demethylation. Located in cytosol and nucleoplasm. Implicated in autosomal dominant non-syndromic intellectual disability; breast cancer; colorectal cancer; malignant peripheral nerve sheath tumor; and stomach cancer. Biomarker of several diseases, including alopecia areata; lung cancer; medulloblastoma; prostate cancer; and stomach cancer.

Recommended Dilutions

WB 1:500 - 1:2000

IF/ICC 1:50 - 1:200

IP 0.5µg-4µg antibody for
200µg-400µg extracts
of whole cells

ELISA Recommended starting
concentration is 1
µg/mL. Please optimize
the concentration
based on your specific
assay requirements.

ChIP 5µg antibody for
10µg-15µg of
Chromatin

Immunogen Information

Gene ID

23030

Swiss Prot

O94953

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

MRD65; JMJD2B; TDRD14B; KDM4B/JMJD2B

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

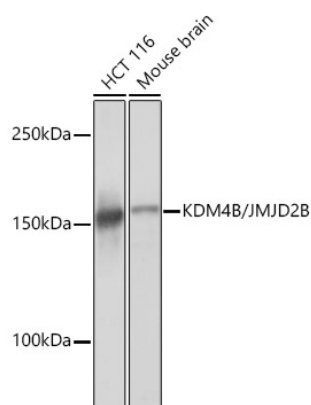
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact



www.abclonal.com

Validation Data



Western blot analysis of various lysates using KDM4B/JMJD2B Rabbit mAb (A6670) at 1:1000 dilution.

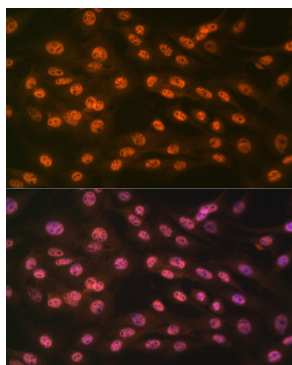
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

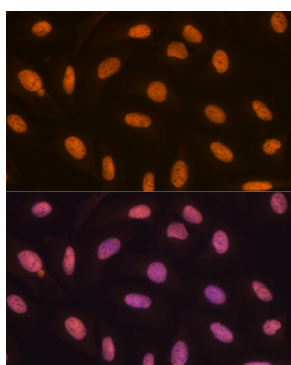
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

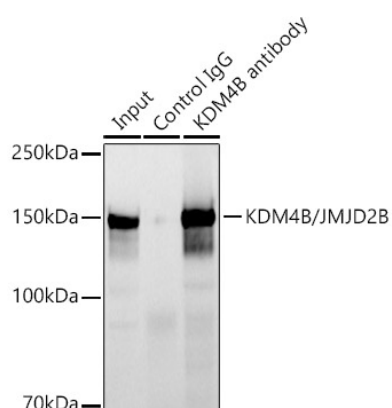
Exposure time: 1s.



Immunofluorescence analysis of C6 cells using KDM4B/JMJD2B Rabbit mAb (A6670) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

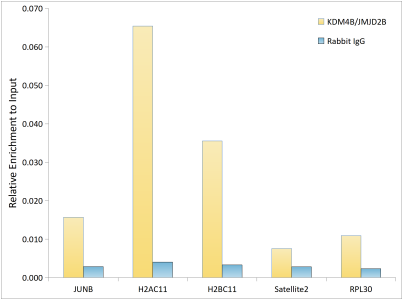


Immunofluorescence analysis of U-2 OS cells using KDM4B/JMJD2B Rabbit mAb (A6670) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300 µg extracts of HCT116 cells using 3 µg KDM4B/JMJD2B antibody (A6670). Western blot was performed from the immunoprecipitate using KDM4B/JMJD2B antibody (A6670) at a dilution of 1:1000.

Validation Data



Chromatin immunoprecipitation analysis of extracts of 5637; cells, using KDM4B/JMJD2B antibody (A6670) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.