Product datasheet

Anti-JMJD3/KDM6B Antibody

Catalog Number: *A01309-1*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-JMJD3/KDM6B Antibody
Gene Name	KDM6B
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human KDM6B/JMJD3 recombinant protein (Position: R1127-R1643).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	177 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Lysine demethylase 6B is a protein that in humans is encoded by the KDM6B gene. It is mapped to 17p13.1. The protein encoded by this gene is a lysine-specific demethylase that specifically demethylates di- or tri-methylated lysine 27 of histone H3 (H3K27me2 or H3K27me3). H3K27 trimethylation is a repressive epigenetic mark controlling chromatin organization and gene silencing. This protein can also demethylate non-histone proteins such as retinoblastoma protein. Through its demethylation actvity this gene influences cellular differentiation and development,tumorigenesis,inflammatory diseases,and neurodegenerative diseases. This protein has two classical nuclear localization signals at its N-terminus. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Reference

Anti-JMJD3/KDM6B Antibody被引用在1文献中。

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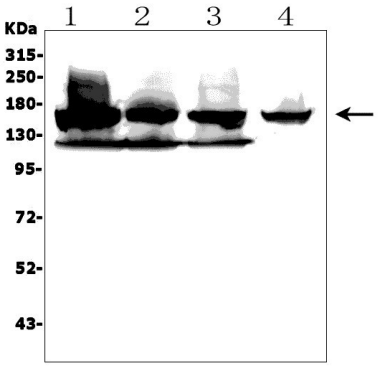
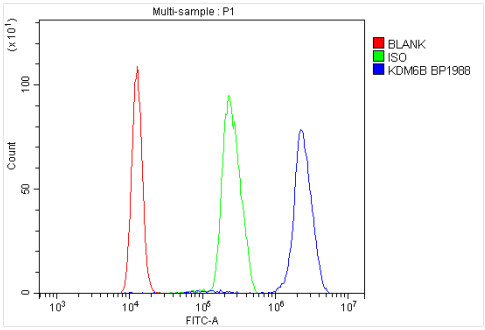
Selected Validation Data



Western blot analysis of JMJD3/KDM6B using anti-JMJD3/KDM6B antibody (A01309-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human K562 whole cell lysates,
Lane 2: human A375 whole cell lysates,
Lane 3: human HEK293 whole cell lysates,
Lane 4: human A431 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-JMJD3/KDM6B antigen affinity purified polyclonal antibody (A01309-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for JMJD3/KDM6B at approximately 177 kDa. The expected band size for JMJD3/KDM6B is at 177 kDa.



Flow Cytometry analysis of K562 cells using anti-JMJD3/KDM6B antibody (A01309-1).
Overlay histogram showing K562 cells stained with A01309-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-JMJD3/KDM6B Antibody (A01309-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.