10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KDM4B
Purified Mouse Monoclonal Antibody
Catalog # AO2524a

Specification

KDM4B - Product Information

Application	**E, WB**
Primary Accession	O94953
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**122kDa KDa**

Immunogen
Purified recombinant fragment of human KDM4B (AA: 960-1096) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

KDM4B - Additional Information

Gene ID 23030

Other Names
JMJD2B; TDRD14B

Dilution
E~~ 1/10000
WB~~ 1/500 - 1/2000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
KDM4B is for research use only and not for use in diagnostic or therapeutic procedures.

KDM4B - Protein Information

Name KDM4B

Synonyms JHDM3B, JMJD2B, KIAA0876

Function
Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys- 20'. Only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and

KDM4D. Demethylation of Lys residue generates formaldehyde and succinate (PubMed:16603238, PubMed:28262558). Plays a critical role in the development of the central nervous system (CNS).

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:15927959}

KDM4B - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KDM4B - Images

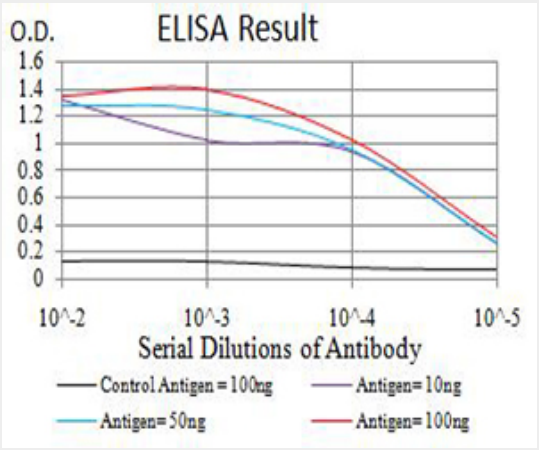

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

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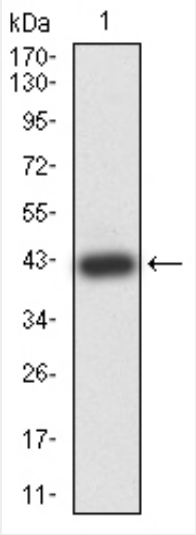

Figure 2:Western blot analysis using KDM4B mAb against human KDM4B (AA: 960-1096) recombinant protein. (Expected MW is 41 kDa)

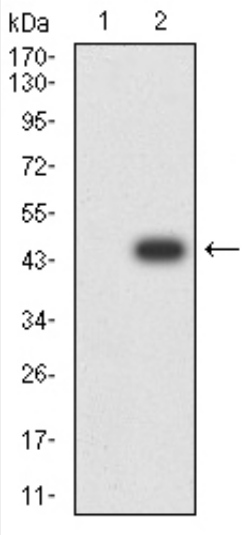

Figure 3:Western blot analysis using KDM4B mAb against HEK293 (1) and KDM4B (AA: 960-1096)-hIgGFc transfected HEK293 (2) cell lysate.

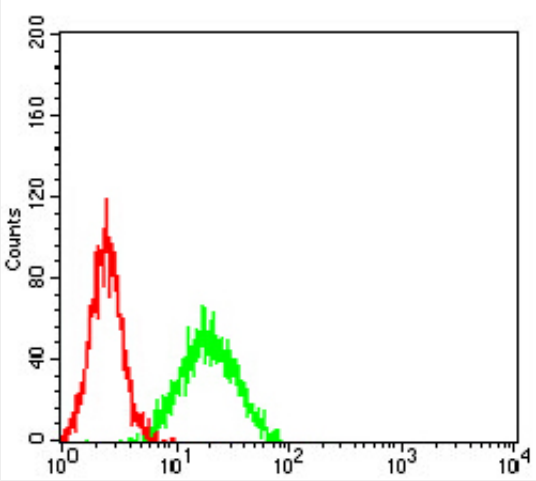

Figure 4:Flow cytometric analysis of NIH/3T3 cells using KDM4B mouse mAb (green) and negative

control (red).

KDM4B - References

1.J Natl Cancer Inst. 2015 Apr 29;107(6):djv080.2.Int J Oncol. 2014 Apr;44(4):1341-8.