10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

KDM5B Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2094a

Specification

KDM5B Antibody - Product Information

Application	**E, WB, FC**
Primary Accession	Q9UGL1
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**175.6kDa KDa**

Description
KDM5B (lysine (K)-specific demethylase 5B) is a protein-coding gene. Diseases associated with KDM5B include retinoblastoma. GO annotations related to this gene include oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors and sequence-specific DNA binding transcription factor activity. An important paralog of this gene is KDM5C.

Immunogen
Purified recombinant fragment of human KDM5B (AA: 231-319) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

KDM5B Antibody - Additional Information

Gene ID 10765

Other Names
Lysine-specific demethylase 5B, 1.14.11.-, Cancer/testis antigen 31, CT31, Histone demethylase JARID1B, Jumonji/ARID domain-containing protein 1B, PLU-1, Retinoblastoma-binding protein 2 homolog 1, RBP2-H1, KDM5B, JARID1B, PLU1, RBBP2H1

Dilution
E~~1/10000
WB~~1/500 - 1/2000
FC~~1/200 - 1/400

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
KDM5B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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KDM5B Antibody - Protein Information

Name KDM5B

Synonyms JARID1B, PLU1, RBBP2H1

Function
Histone demethylase that demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code (PubMed:24952722, PubMed:27214403, PubMed:28262558). Does not demethylate histone H3 'Lys-9' or H3 'Lys-27'. Demethylates trimethylated, dimethylated and monomethylated H3 'Lys-4'. Acts as a transcriptional corepressor for FOXG1B and PAX9. Favors the proliferation of breast cancer cells by repressing tumor suppressor genes such as BRCA1 and HOXA5 (PubMed:24952722). In contrast, may act as a tumor suppressor for melanoma. Represses the CLOCK-BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2 (By similarity).

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00355, ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:10336460, ECO:0000269|PubMed:12237901}

Tissue Location
Ubiquitously expressed, with highest levels in testis. Down-regulated in melanoma and glioblastoma. Up-regulated in breast cancer (at protein level).

KDM5B Antibody - 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