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JMJD2D Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1028b

Specification

JMJD2D Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q6B0I6
Other Accession	Q0VF39
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**58603**
Antigen Region	**484-516**

JMJD2D Antibody (C-term) - Additional Information

Gene ID 55693

Other Names
Lysine-specific demethylase 4D, 11411-, JmjC domain-containing histone demethylation protein 3D, Jumonji domain-containing protein 2D, KDM4D, JHDM3D, JMJD2D

Target/Specificity
This JMJD2D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 484-516 amino acids from the C-terminal region of human JMJD2D.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

Precautions
JMJD2D Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

JMJD2D Antibody (C-term) - Protein Information

Name KDM4D

Synonyms JHDM3D, JMJD2D

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.

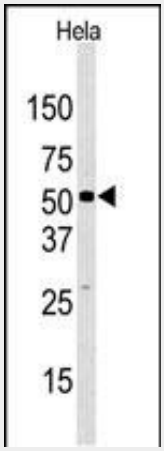
Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:35145029}

JMJD2D Antibody (C-term) - 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

JMJD2D Antibody (C-term) - Images



Western blot analysis of anti-JMJD2D (C-term) Pab in Hela cell line lysate. JMJD2D (C-term)(arrow) was detected using the purified Pab.

JMJD2D Antibody (C-term) - Background

Covalent modification of histones plays critical role in regulating chromatin structure and transcription. While most covalent histone modifications are reversible, only recently has it been established that methyl groups are subject to enzymatic removal from histones. A family of novel JmjC domain-containing histone demethylation (JHDM) enzymes have been identified that perform this specific function. Histone demethylation by JHDM proteins requires cofactors Fe(II) and alpha-ketoglutarate. Family members include JHDM1 (demethylating histone 3 at lysine 36), and JHDM2A as well as JMJD2CH3K9 (both of which demethylate histone 3 at lysine 9). Contributions of histone demethylase activity to tumor development, decreases in cell proliferation, and hormone-dependent transcriptional activation have been observed.

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JMJD2D Antibody (C-term) - References

Katoh, M., et al., Int. J. Oncol. 24(6):1623-1628 (2004).