

M JMJD3 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1022c

Specification

M JMJD3 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q5NCY0
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	954-987

M JMJD3 Antibody (Center) - Additional Information

Gene ID 216850

Other Names

Lysine-specific demethylase 6B, 11411-, JmjC domain-containing protein 3, Jumonji domain-containing protein 3, Kdm6b, Jmjd3, Kaa0346

Target/Specificity

This Mouse JMJD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 954-987 amino acids from the Central region of mouse JMJD3.

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

M JMJD3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

M JMJD3 Antibody (Center) - Protein Information

Name Kdm6b

Synonyms Jmjd3, Kaa0346

Function Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation (PubMed:[17825402](#)). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression by acting as a link between T- box factors and the SMARCA4-containing SWI/SNF remodeling complex (PubMed:[21095589](#)).

Cellular Location

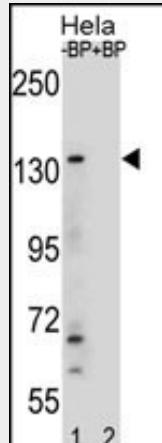
Nucleus.

M JMJD3 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

M JMJD3 Antibody (Center) - Images



Western blot analysis of anti-JMJD3 Center Pab (AP1022c) in HeLa cell line lysates. JMJD3 Center (arrow) was detected using the purified Pab.

M JMJD3 Antibody (Center) - 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.

M JMJD3 Antibody (Center) - Citations

- [Epigenetic reprogramming during wound healing: loss of polycomb-mediated silencing may enable upregulation of repair genes.](#)