

Rabbit anti-Human, mouse M JMJD3 Polyclonal Antibody | anti-Kdm6b antibody

M JMJD3 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287749	Rabbit	Human, mouse	ELISA, Western Blot

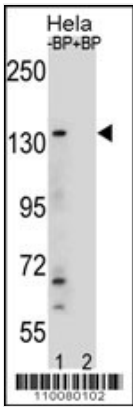
PRODUCT SYNONYMS

M JMJD3; Polyclonal Antibody; M JMJD3 Antibody (Center); Lysine-specific demethylase 6B; 11411-; JmjC domain-containing protein 3; Jumonji domain-containing protein 3; Kdm6b; Jmjd3; Kiaa0346; anti-Kdm6b antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	954-987
Applicable Applications for anti-Kdm6b antibody	ELISA, WB (Western Blot)
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:). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family memberdependent gene expression by acting as a link between T-box factors and the SMARCA4-containing SWI/SNF remodeling complex (PubMed:).
Cellular Location	Nucleus.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
Western blot analysis of anti-JMJD3 Center Pab (AAA287749) in HeLa cell line lysates.
JMJD3 Center (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-Kdm6b antibody	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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NCBI AND UNIPROT INFORMATION

NCBI GI #	62945394
NCBI GeneID	216850
NCBI Accession #	NP_001017426.1
NCBI GenBank Nucleotide #	NM_001017426.1
UniProt Accession #	Q5NCY0; Q3UWY9; Q4VC26; Q6ZQD3
NCBI Official Full Name	lysine-specific demethylase 6B
NCBI Official Synonym Full Names	KDM1 lysine (K)-specific demethylase 6B
NCBI Official Symbol	Kdm6b
NCBI Official Synonym Symbols	Jmjd3; BC038313; mKIAA0346; 1700064E03Rik
NCBI Protein Information	lysine-specific demethylase 6B
UniProt Protein Name	Lysine-specific demethylase 6B
UniProt Gene Name	Kdm6b
UniProt Synonym Gene Names	Jmjd3; Kiaa0346
UniProt Entry Name	KDM6B_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.