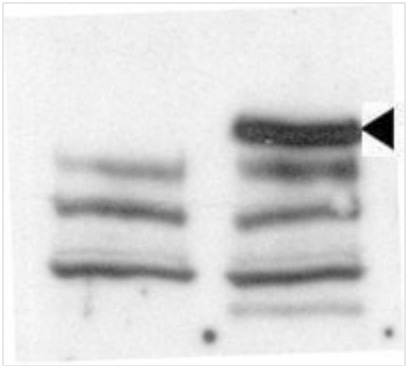
M JMJD3 (KDM6B) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	M JMJD3 (Kdm6b), Polyclonal Antibody
Full Product Name	M JMJD3 Antibody (C-term)
Product Gene Name	anti-Kdm6b antibody
Product Synonym Names	Lysine-specific demethylase 6B; 11411-; JmjC domain-containing protein 3; Jumonji domain-containing protein 3; Kdm6b; Jmjd3; Kiaa0346
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Mouse (Predicted Reactivity: Human)
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.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 1.12 (lot specific)
Specificity	This Mouse JMJD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1606-1641 amino acids from the C-terminal region of mouse JMJD3.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	JMJD3 peptide (MBS9217495) is used for blocking the activity of M JMJD3 antibody (MBS9212657)
Molecular Weight	176355
Immunogen Sequence Positions	1606-1641
3D Structure	ModBase 3D Structure for Q5NCY0
Antigen Type	Synthetic Peptide
Antigen Source	MOUSE
Applications Tested/Suitable for anti-Kdm6b antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-Kdm6b antibody	WB~~1:1000
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.
Other Notes	Small volumes of anti-Kdm6b antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for Kdm6b purchase	MBS9212657 is an antibody targeting Kdm6b. Also known as M JMJD3 Antibody (C-term). Reactive in Mouse (Predicted Reactivity: Human). Host: Rabbit.



Western Blot (WB) of anti-Kdm6b antibody
Western blot analysis of anti-JMJD3 C-term Pab in untransfected 293 cells (left) and transfected 293 cells (right). The detection of a prominent band at 180kDa is observed on transfected 293 cells but not on the untransfected 293 cells. Data kindly provided by Dr.Gioacchino Natoli of European Institute of Oncology.



Immunohistochemistry (IHC) of anti-Kdm6b antibody
Formalin-fixed and paraffin-embedded human Skeletal Muscle tissue reacted with JMJD3 Antibody(C-term) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Kdm6b. It may not necessarily be applicable to this product.

NCBI GI #	62945394
NCBI GeneID	216850
NCBI Accession #	NP_001017426.1
UniProt Primary Accession #	Q5NCY0
UniProt Secondary Accession #	Q3UWY9; Q4VC26; Q6ZQD3
UniProt Related Accession #	Q5NCY0
GenBank Nucleotide #	NM_001017426.1
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
UniProt Protein Name	Lysine-specific demethylase 6B
UniProt Synonym Protein Names	JmjC domain-containing protein 3; Jumonji domain-containing protein 3
Protein Family	Lysine-specific demethylase
UniProt Gene Name	Kdm6b
UniProt Synonym Gene Names	Jmjd3; Kiaa0346
UniProt Entry Name	KDM6B_MOUSE
NCBI Protein Information	lysine-specific demethylase 6B

UniProt Comments for Kdm6b	JMJD3: 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. Interacts with TLE1. Component of the MLL4 complex, at least composed of MLL4, ASH2L, RBBP5, WDR5, and KDM6B. By 12-O-tetradecanoylphorbol-13-acetate (TPA) in myeloid leukemia cells. Belongs to the UTX family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Oxidoreductase; EC 1.14.11.- Cellular Component: nucleus Molecular Function: procollagen-proline dioxygenase activity; 2,4-dichlorophenoxyacetate alpha-ketoglutarate dioxygenase activity; sulfonate dioxygenase activity; dioxygenase activity; sequence-specific DNA binding; metal ion binding; beta-catenin binding; DNA-N1-methyladenine dioxygenase activity; chromatin binding; oxidoreductase activity Biological Process: histone demethylation; endothelial cell differentiation; hippocampus development; mesodermal cell differentiation; positive regulation of transcription from RNA polymerase II promoter; chromatin modification; inflammatory response; cardiac muscle cell differentiation
Research Articles on Kdm6b	**1.** Inhibition of histone demethylases UTX and JMJD3 inhibits HSV-1 reactivation from sensory neurons.
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