JMJD2B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	JMJD2B, Polyclonal Antibody
Full Product Name	JMJD2B, NT (KDM4B, JHDM3B, JMJD2B, KIAA0876, Lysine-specific demethylase 4B, JmjC domain-containing histone demethylation protein 3B, Jumonji domain-containing protein 2B) (MaxLight 750)
Product Gene Name	anti-JMJD2B antibody
Product Synonym Gene Name	KDM4B
Product Synonym Names	KDM4B; JHDM3B; JMJD2B; KIAA0876; Lysine-specific demethylase 4B; JmjC domain-containing histone demethylation protein 3B; Jumonji domain-containing protein 2B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	121,897 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (4969124..5153609). Location: 19p13.3
OMIM	609765
3D Structure	ModBase 3D Structure for O94953
Immunogen	JMJD2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10~40 amino acids from the N-terminal region of human JMJD2B.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-JMJD2B antibody	Antibodies; Enzymes; Demethylase
Applications Tested/Suitable for anti-JMJD2B antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-JMJD2B antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-JMJD2B antibody	KDM4B / JMJD2B is a jumonji domain containing histone demethylase that specifically demethylates histone H3 at K9 and K36.

Product References and Citations for anti-JMJD2B antibody	Beyer, S., et al. J. Biol. Chem. 283(52):36542-36552(2008). Pollard, P.J., et al. Biochem. J. 416(3):387-394(2008). Katoh, Y., et al. Int. J. Mol. Med. 20(2):269-273(2007). Whetstine, J.R., et al. Cell 125(3):467-481(2006). Gray, S.G., et al. J. Biol. Chem. 280(31):28507-28518(2005).
Other Notes	Small volumes of anti-JMJD2B 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 JMJD2B purchase	MBS6311684 is an antibody targeting JMJD2B. Also known as JMJD2B, NT (KDM4B, JHDM3B, JMJD2B, KIAA0876, Lysine-specific demethylase 4B, JmjC domain-containing histone demethylation protein 3B, Jumonji domain-containing protein 2B) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JMJD2B. It may not necessarily be applicable to this product.

NCBI GI #	45504380
NCBI GeneID	23030
NCBI Accession #	NP_055830.1
UniProt Primary Accession #	O94953
UniProt Secondary Accession #	O75274; Q6P3R5; Q9P1V1; Q9UF40; B9EGN8; D6W631
UniProt Related Accession #	O94953
GenBank Nucleotide #	NM_015015.2
NCBI Official Full Name	lysine-specific demethylase 4B
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 4B
NCBI Official Symbol	KDM4B
NCBI Official Synonym Symbols	JMJD2B; TDRD14B
UniProt Protein Name	Lysine-specific demethylase 4B
UniProt Synonym Protein Names	JmjC domain-containing histone demethylation protein 3B; Jumonji domain-containing protein 2B
UniProt Gene Name	KDM4B
UniProt Synonym Gene Names	JHDM3B; JMJD2B; KIAA0876
UniProt Entry Name	KDM4B_HUMAN
NCBI Protein Information	lysine-specific demethylase 4B; tudor domain containing 14B; jumonji domain containing 2B; jumonji domain-containing protein 2B; jmjC domain-containing histone demethylation protein 3B
UniProt Comments for JMJD2B	JMJD2B: Histone demethylase that specifically demethylates 'Lys- 9' of histone H3, thereby playing a role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and KDM4D. Demethylation of Lys residue generates formaldehyde and succinate. Belongs to the JHDM3 histone demethylase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Demethylase; EC 1.14.11.-; Oxidoreductase Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: nucleoplasm; focal adhesion; nucleus; cell junction Molecular Function: dioxygenase activity; zinc ion binding Biological Process: establishment and/or maintenance of chromatin architecture; regulation of transcription, DNA-dependent; transcription, DNA-dependent; chromatin modification

Research Articles on JMJD2B	**1.** JMJD2B may play a central role in gastric cancer cell growth and might constitute a novel therapeutic target to overcome hypoxia-induced radio-resistance, thereby improving the efficiency of radiation therapy.
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