

KDM4B recombinant protein

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CATALOG #
AAA72911

APPLICATIONS
Western Blot

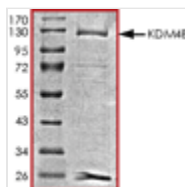
PRODUCT SYNONYMS

KDM4B; KDM4B recombinant protein; Jmjd2b; mKIAA0876; 4732474L06Rik

PRODUCT SPECIFICATIONS

Purity/Purification	>75%
Form/Format	50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1ug/ul (varies by lot)
Sequence Positions	1-725
Sequence Length	4610
Applicable Applications for KDM4B recombinant protein	WB (Western Blot)
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Shipping: Ships on Dry Ice

IMAGES



SDS-PAGE

The purity of KDM4B was determined to be >75% by densitometry.

ADDITIONAL INFORMATION

Related Product Information for KDM4B recombinant protein

Recombinant mouse KDM4B (1-725) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: KDM4B or lysine (K)-specific demethylase 4B, which is also known as JMJD2B, contains a JmjN domain, a JmjC domain, a JD2H domain, 2 TUDOR domains, and a bipartite nuclear localization signal that overlaps the C-terminal part of the second TUDOR domain. KDM4B plays an essential role in human carcinogenesis through positive regulation of cyclin-dependent kinase 6 (1). KDM4B functions as a co-factor of estrogen receptor in breast cancer proliferation and mammary gland development (2). KDM4B is regulated by both ER α and HIF-1 α , drives breast cancer cell proliferation in normoxia and hypoxia, and epigenetically regulates the expression of cell cycle genes such as CCND1, CCNA1, and WEE1.

Product Categories/Family for KDM4B recombinant protein

[Deacetylases/Demethylase Proteins](#); [Signaling Proteins - Deacetylase/Demethylase Proteins](#)

References	1. Toyokawa G. et.al: The histone demethylase JMJD2B plays an essential role in human carcinogenesis through positive regulation of cyclin-dependent kinase 6. 2011 Dec. 2. Kawazu M. et.al: Histone demethylase JMJD2B functions as a co-factor of estrogen receptor in breast cancer proliferation and mammary gland development, 2011 Mar 18.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	256574760
NCBI GeneID	193796
NCBI Accession #	NP_742144.1
NCBI GenBank Nucleotide #	NM_172132.2
UniProt Accession #	Q91VY5; Q3UR22; Q6ZQ30; Q99K42
Molecular Weight	125 kDa
NCBI Official Full Name	Mus musculus lysine (K)-specific demethylase 4B (Kdm4b), mRNA
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 4B
NCBI Official Symbol	Kdm4b
NCBI Official Synonym Symbols	Jmjd2b; mKIAA0876; 4732474L06Rik
NCBI Protein Information	lysine-specific demethylase 4B; jumonji domain containing 2B; jumonji domain-containing protein 2B; jmjC domain-containing histone demethylation protein 3B
UniProt Protein Name	Lysine-specific demethylase 4B
UniProt Gene Name	Kdm4b
UniProt Synonym Gene Names	Jhdm3b; Jmjd2b
UniProt Entry Name	KDM4B_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.

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 Online datasheet: <https://stage.aaabiotech.com/kdm4b-recombinant-protein-wb-western-blot/72911>