

Recombinant Mouse Kdm4b, GST-tagged

Cat. No. Kdm4b-260M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse KDM4B (1-725) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	1-725 a.a.
Description	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. KDM4B functions as a co-factor of estrogen receptor in breast cancer proliferation and mammary gland development. KDM4B is regulated by both ERα and HIF-1α, drives breast cancer cell proliferation in normoxia and hypoxia, and epigenetically regulates the expression of cell cycle genes such as CCND1, CCNA1, and WEE1.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~125 kDa
Purity	>75% by densitometry

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Applications	Western Blot
Storage	Store product at –70 centigrade. 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.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	Kdm4b lysine (K)-specific demethylase 4B [<i>Mus musculus</i>]
Official Symbol	Kdm4b
Synonyms	KDM4B; lysine (K)-specific demethylase 4B; lysine-specific demethylase 4B; jumonji domain containing 2B; jumonji domain-containing protein 2B; jmjC domain-containing histone demethylation protein 3B; Jmjd2b; mKIAA0876; MGC6349; 4732474L06Rik;
Gene ID	193796
mRNA Refseq	NM_172132
Protein Refseq	NP_742144
Function	metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; zinc ion binding;