

Recombinant Mouse Kdm5b, GST-tagged

Cat. No. Kdm5b-261M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse KDM5B (1-753) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	1-753 a.a.
Description	KDM5B is a lysine (K)-specific demethylase 5B which is highly expressed in testis and shows the lowest expression in skeletal muscle. KDM5B is a histone H3 lysine 4 (H3K4) demethylase up-regulated in prostate cancer and associated with androgen receptor where it regulated its transcriptional activity in reporter gene assays. Overexpression of KDM5B in HeLa cells results in loss of tri-, di-, and monomethyl H3K4, but does not alter the methylation status of H3K9 or H3K36. A KDM5B containing highly conserved putative DNA/chromatin binding motif is specifically up-regulated in breast cancer.
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	~112 kDa
Purity	>90% 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	Kdm5b lysine (K)-specific demethylase 5B [<i>Mus musculus</i>]
Official Symbol	Kdm5b
Synonyms	KDM5B; lysine (K)-specific demethylase 5B; lysine-specific demethylase 5B; histone demethylase JARID1B; putative DNA/chromatin binding motif 1; jumonji/ARID domain-containing protein 1B; jumonji, AT rich interactive domain 1B (Rbp2 like); PUT1; Plu1; PLU-1; Rb-Bp2; Jarid1b; AW556288; RBBP2H1A; mKIAA4034; D1ErtD202e; 2010009J12Rik; 2210016I17Rik; KIAA4034;
Gene ID	75605
mRNA Refseq	NM_152895
Protein Refseq	NP_690855
Function	DNA binding; histone demethylase activity (H3-K4 specific); histone demethylase activity (H3-dimethyl-K4 specific); histone demethylase activity (H3-trimethyl-K4 specific); metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors;

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oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; transcription corepressor activity; zinc ion binding;