

## Recombinant Mouse Kdm5b, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse KDM5B (1-753) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Mouse
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	1-753 a.a.
<b>Description</b>	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.
<b>Form</b>	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.
<b>Molecular Mass</b>	~112 kDa
<b>Purity</b>	>90% by densitometry

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<b>Applications</b>	Western Blot
<b>Storage</b>	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.
<b>Concentration</b>	0.1 µg/µl
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">Kdm5b lysine (K)-specific demethylase 5B [ Mus musculus ]</a>
<b>Official Symbol</b>	Kdm5b
<b>Synonyms</b>	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; D1Ert202e; 2010009J12Rik; 2210016I17Rik; KIAA4034;
<b>Gene ID</b>	<a href="#">75605</a>
<b>mRNA Refseq</b>	<a href="#">NM_152895</a>
<b>Protein Refseq</b>	<a href="#">NP_690855</a>
<b>Function</b>	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;

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