

Recombinant Mouse L3mbtl1 Protein, Myc/DDK-tagged

Cat. No. L3mbtl1-3743M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length L3MBTL1 histone methyl-lysine binding protein (L3mbtl1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	<p>Polycomb group (PcG) protein that specifically recognizes and binds mono- and dimethyllysine residues on target proteins, thereby acting as a 'reader' of a network of post-translational modifications. PcG proteins maintain the transcriptionally repressive state of genes: acts as a chromatin compaction factor by recognizing and binding mono- and dimethylated histone H1b/H1-4 at 'Lys-26' (H1bK26me1 and H1bK26me2) and histone H4 at 'Lys-20' (H4K20me1 and H4K20me2), leading to condense chromatin and repress transcription. Recognizes and binds p53/TP53 monomethylated at 'Lys-382', leading to repress p53/TP53-target genes. Also recognizes and binds RB1/RB monomethylated at 'Lys-860'. Participates in the ETV6-mediated repression. Probably plays a role in cell proliferation. Overexpression induces multinucleated cells, suggesting that it is required to accomplish normal mitosis.</p>
Molecular Mass	92.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	L3mbtl1 L3MBTL1 histone methyl-lysine binding protein [<i>Mus musculus</i> (house mouse)]
Official Symbol	L3mbtl1
Synonyms	L3MBTL1; l(3)mbt-like (<i>Drosophila</i>); lethal(3)malignant brain tumor-like protein 1; H-l(3)mbt protein; L(3)mbt protein homolog; L3mbtl; mKIAA0681; C630004G01; KIAA0681
Gene ID	241764
mRNA Refseq	NM_001081338
Protein Refseq	NP_001074807
UniProt ID	A2A5N8

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