

## Recombinant Mouse L3mbtl1 Protein, Myc/DDK-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Purified recombinant protein of mouse full-length L3MBTL1 histone methyl-lysine binding protein (L3mbtl1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 92.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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

## GENE INFORMATION

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

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