

Product datasheet

Recombinant Human L3MBTL1 protein (His tag)
ab216180

1 Image

Description

Product name	Recombinant Human L3MBTL1 protein (His tag)
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>Q9Y468</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	EWSSSQPATG EKKECWSWES YLEEQAITA PVSLFQDSQA VTHNKNQFKL GMKLEGIDPQ HPSMYFILT VAEVCGYRLRL HFDGYSECHD FWVNANSPDI HPAGWFEKTG HKLQPPKGYK EEEFWSWQYL RSTRAQAAPK HLFVSQSHSP PPLGFQVGMK LEAVDRMNPS LVCVASVTDV VDSRFLVHFD NWDDTYDYWC DPSSPYHPV GWCQKQKGKPL TPPQDYPDPD NFCWEKYLEE TGASAVPTWA FKVRPPHSFL VNMKLEAVDR RNPALIRVAS VEDVEDHRIK IHFDGWSHG Y DFWIDADHPD IHPAGWCSKT GHPLQPPLGP REPSSASPGG
Predicted molecular weight	40 kDa including tags
Amino acids	191 to 530
Tags	His tag N-Terminus

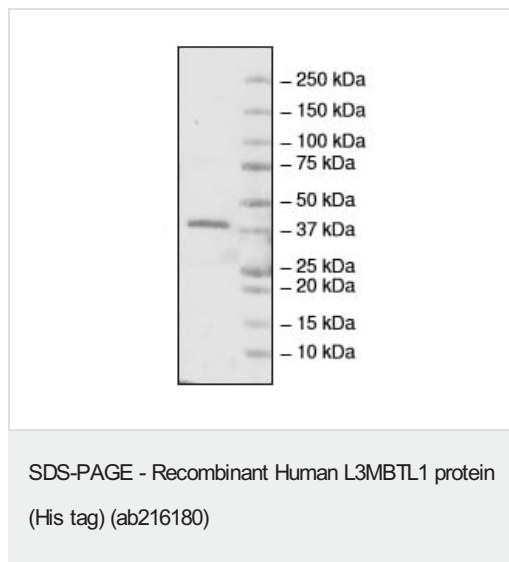
Specifications

Our **Abpromise guarantee** covers the use of **ab216180** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form	Liquid
Preparation and Storage	
Stability and Storage	<p>Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 8.00</p> <p>Constituents: 20% Glycerol (glycerin, glycerine), 0.02% Potassium chloride, 0.64% Sodium chloride, 0.63% Tris HCl</p>
General Info	
Function	<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/HIST1H1E 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>
Tissue specificity	Widely expressed. Expression is reduced in colorectal cancer cell line SW480 and promyelocytic leukemia cell line HL-60.
Sequence similarities	<p>Contains 1 C2HC-type zinc finger.</p> <p>Contains 3 MBT repeats.</p> <p>Contains 1 SAM (sterile alpha motif) domain.</p>
Developmental stage	In interphase cells, it is scattered throughout the nucleoplasm. In mitotic cells, it strongly associates with condensed chromosomes from the prophase to telophase.
Domain	<p>The MBT repeat 2 specifically recognizes and binds monomethylated and dimethylated proteins. In contrast, it does not bind trimethylated proteins. The MBT repeat 1 does not bind methylated peptides but inserts a proline ring in a Pro-Ser-Ser/Thr sequence context.</p>
Cellular localization	Nucleus. Excluded from the nucleolus. Does not colocalize with the PcG protein BMI1, suggesting that these two proteins do not belong to the same complex.
Images	



4-20% SDS-PAGE analysis of 2 µg ab216180

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