

L3MBTL1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21815c**Specification**

L3MBTL1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q9Y468
Reactivity	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	92297

L3MBTL1 Antibody (Center) - Additional Information**Gene ID** 26013**Other Names**

Lethal(3)malignant brain tumor-like protein 1, H-l(3)mbt, H-l(3)mbt protein, L(3)mbt-like, L(3)mbt protein homolog, L3MBTL1, L3MBTL1, KIAA0681, L3MBT, L3MBTL

Target/Specificity

This L3MBTL1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 451-485 amino acids from the Central region of human L3MBTL1.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

L3MBTL1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

L3MBTL1 Antibody (Center) - Protein Information**Name** L3MBTL1**Synonyms** KIAA0681, L3MBT, L3MBTL

Function 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.

Cellular Location

Nucleus. Note=Excluded from the nucleolus. Does not colocalize with the PcG protein BMI1, suggesting that these two proteins do not belong to the same complex

Tissue Location

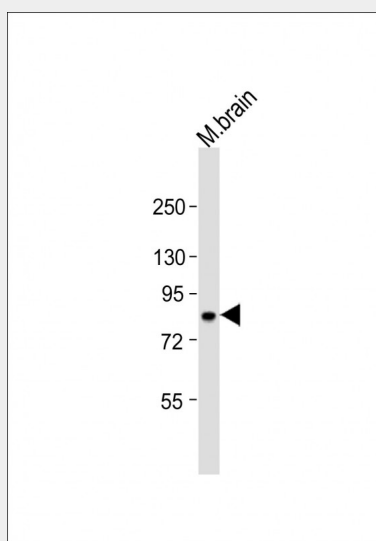
Widely expressed. Expression is reduced in colorectal cancer cell line SW480 and promyelocytic leukemia cell line HL-60.

L3MBTL1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

L3MBTL1 Antibody (Center) - Images



Anti-L3MBTL1 Antibody (Center) at 1:2000 dilution + mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 84 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

L3MBTL1 Antibody (Center) - Background

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.

L3MBTL1 Antibody (Center) - References

Koga H., et al. *Oncogene* 18:3799-3809(1999).
Ota T., et al. *Nat. Genet.* 36:40-45(2004).
Bechtel S., et al. *BMC Genomics* 8:399-399(2007).
Deloukas P., et al. *Nature* 414:865-871(2001).
Ishikawa K., et al. *DNA Res.* 5:169-176(1998).