

Rabbit L3MBTL1 Polyclonal Antibody | anti-L3MBTL1 antibody

L3MBTL1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31258	Rabbit	Human, Mouse, Rat Predicted Reactivity: Horse(100%), Rabbit(100%), Dog(100%), Chicken(100%)	ELISA

PRODUCT SYNONYMS

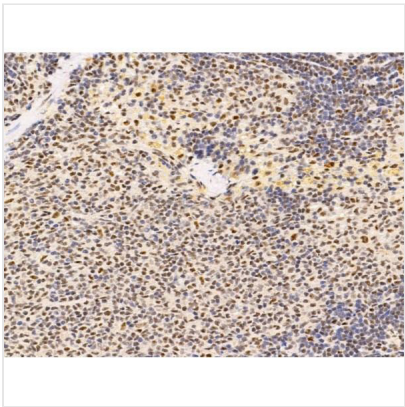
L3MBTL1; Polyclonal Antibody; L3MBTL1 Antibody; dJ138B7.3; H-L(3)MBT; H-I(3)mbt protein; KIAA0681; L(3)mbt protein homolog; L(3)mbt-like; L3MBT; L3MBTL; Lethal (3) malignant brain tumor l(3); Lethal(3)malignant brain tumor-like protein 1; LMBL1_HUMAN; RGD1307316; ZC2HC3; anti-L3MBTL1 antibody

PRODUCT SPECIFICATIONS

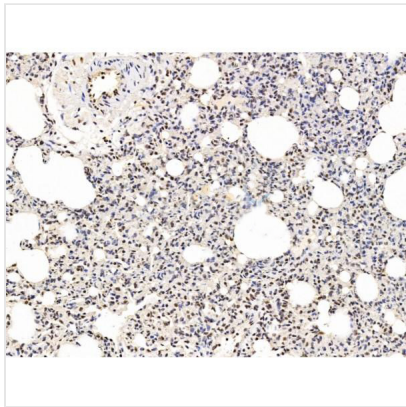
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Horse(100%), Rabbit(100%), Dog(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	L3MBTL1 Antibody detects endogenous levels of total L3MBTL1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	772
Applicable Applications for anti-L3MBTL1 antibody	ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human L3MBTL1, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



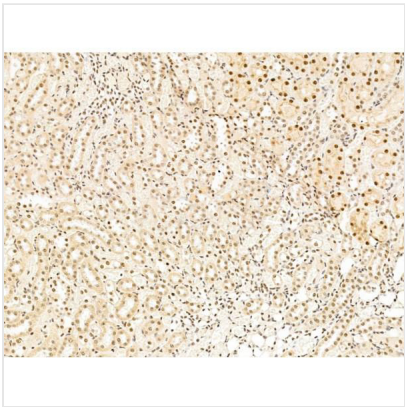
IHC (Immunohistochemistry-Paraffin)
AAA31258 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



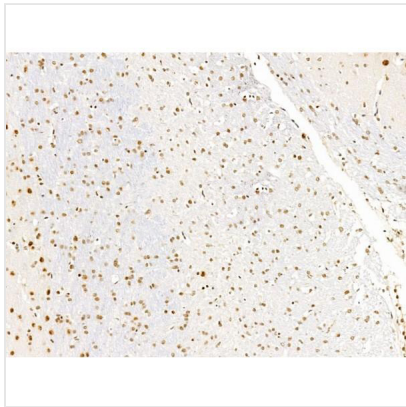
IHC (Immunohistochemistry-Paraffin)
AAA31258 at 1/100 staining Rat spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31258 at 1/100 staining Rat lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31258 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31258 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31258 at 1/100 staining Rat stomach tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-L3MBTL1 antibody	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. Post Translational Modifications: Ubiquitinated in a VCP/p97-dependent way following DNA damage, leading to its removal from DNA damage sites, promoting accessibility of H4K20me2 mark for DNA repair protein TP53BP1, which is then recruited to DNA damage sites. Subcellular Location: Nucleus. Note: Excluded from the nucleolus. Does not colocalizes with the PcG protein BMI1, suggesting that these two proteins do not belong to the same complex. Tissue Specificity: Widely expressed. Expression is reduced in colorectal cancer cell line SW480 and promyelocytic leukemia cell line HL-60. Subunit Structure: Homodimer. Interacts with RB1/RB (when monomethylated at 'Lys-860'). Interacts with p53/TP53 (when monomethylated at 'Lys-382'). Interacts with CBX3, ETV6, KMT5A and VCP/p97. Similarity: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	117938328
NCBI GeneID	26013
NCBI Accession #	NP_056293
NCBI GenBank Nucleotide #	NP_056293.4
UniProt Accession #	Q9Y468
Molecular Weight	Observed Molecular Weight: (Observed)92kD. Predicted Molecular Weight: (Calculated)92kDa.
NCBI Official Full Name	lethal(3)malignant brain tumor-like protein 1 isoform I
NCBI Official Synonym Full Names	L3MBTL histone methyl-lysine binding protein 1
NCBI Official Symbol	L3MBTL1
NCBI Official Synonym Symbols	L3MBTL; ZC2HC3; H-L(3)MBT; dJ138B7.3
NCBI Protein Information	lethal(3)malignant brain tumor-like protein 1
UniProt Protein Name	Lethal(3)malignant brain tumor-like protein 1
UniProt Gene Name	L3MBTL1
UniProt Synonym Gene Names	KIAA0681; L3MBT; L3MBTL; H-L(3)mbt; H-L(3)mbt protein; L(3)mbt-like
UniProt Entry Name	LMBL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

