

MLL2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6183a

Specification

MLL2 Antibody (C-term) - Product Information

Application	WB, IHC-P-Leica,E
Primary Accession	Q14686
Other Accession	NP_003473
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	4980-5009

MLL2 Antibody (C-term) - Additional Information

Gene ID 8085

Other Names

Histone-lysine N-methyltransferase 2D,
Lysine N-methyltransferase 2D, ALL1-related
protein, Myeloid/lymphoid or mixed-lineage
leukemia protein 2, KMT2D, ALR, MLL2, MLL4

Target/Specificity

This MLL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4980-5009 amino acids from the C-terminal region of human MLL2.

Dilution

WB~~1:27000
IHC-P-Leica~~1:500

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

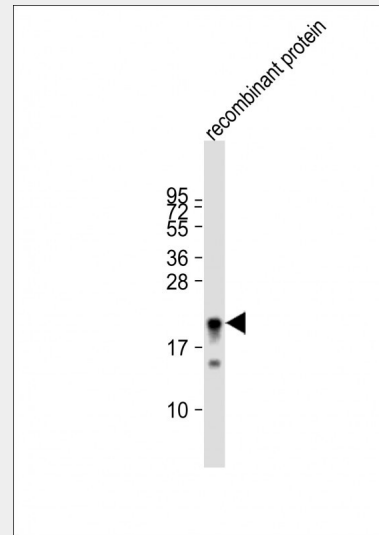
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

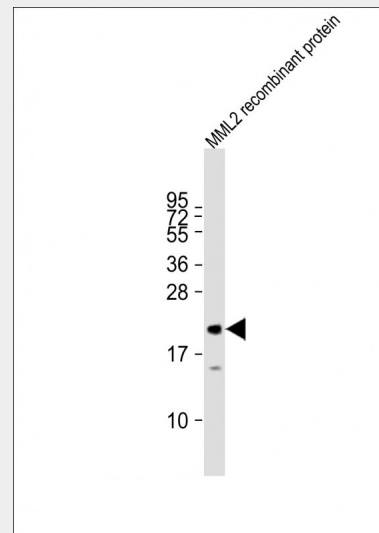
MLL2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MLL2 Antibody (C-term) - Protein Information

Name KMT2D



Anti-MLL2 Antibody (T4720) at 1:80000 dilution + recombinant protein whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 593 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-MLL2 Antibody (T4720) at 1:27000 dilution + HMML2 recombinant protein Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 12 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Synonyms ALR, MLL2, MLL4

Function

Histone methyltransferase. Methylates 'Lys-4' of histone H3 (H3K4me). H3K4me represents a specific tag for epigenetic transcriptional activation. Acts as a coactivator for estrogen receptor by being recruited by ESR1, thereby activating transcription.

Cellular Location

Nucleus.

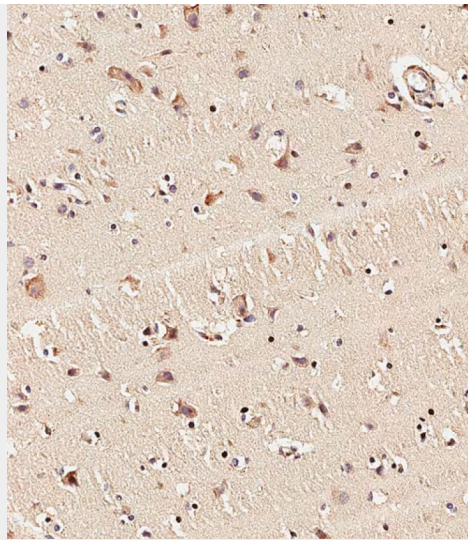
Tissue Location

Expressed in most adult tissues, including a variety of hematopoietic cells, with the exception of the liver

MLL2 Antibody (C-term) - 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](#)



Immunohistochemical analysis of paraffin-embedded Human brain tissue using AP6183a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

MLL2 Antibody (C-term) - Background

The SET domain is a conserved C-terminal domain that characterizes proteins of the MLL family, including MLL2. The MLL SET domain is a histone H3 Lys4 (K4)-specific methyltransferase whose activity is stimulated with acetylated H3 peptides. The gene for MLL2 encodes a 5,262-amino acid protein containing a SET domain, 5 PHD fingers, potential zinc fingers, and a long run of glutamines interrupted by hydrophobic residues (mostly leucine). They also detected an alternatively spliced form encoding 4,957 amino acids and lacking an N-terminal zinc finger and PHD finger. By analysis of rodent/human hybrid cells and analysis of the Genebridge radiation hybrid panel, they mapped the gene to the 12p13.1-qter region. The 12q12-q13 region is involved in duplications and translocations associated with cancer. By database searching, Karlin et al. (2002) identified 192 human protein sequences that have multiple amino acid runs, many of which are associated with disease, including cancer. Karlin et al. (2002) found that a key aspect of 82 of these protein sequences is their role in transcription, translation, and developmental regulation. MLL2 is a striking example of proteins with multiple amino acid runs, with 22 glutamine runs. Genes encoding a significant number of long amino acid runs are potentially associated with diseases, such as cancer.

MLL2 Antibody (C-term) - References

Prasad, R., et al., Oncogene 15(5):549-560 (1997).

MLL2 Antibody (C-term) - Citations

- [Genomic Location of PRMT6-Dependent H3R2 Methylation Is Linked to the Transcriptional Outcome of Associated Genes.](#)
- [Bisphenol-A and diethylstilbestrol exposure induces the expression of breast cancer associated long noncoding RNA HOTAIR in vitro and in vivo.](#)
- [UTX and MLL4 coordinately regulate transcriptional programs for cell proliferation and invasiveness in breast cancer cells.](#)
- [Trans-tail regulation of MLL4-catalyzed H3K4 methylation by H4R3 symmetric dimethylation is mediated by a tandem PHD of MLL4.](#)