

**MLL3 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8552b****Specification**

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**MLL3 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8NEZ4</a>
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k

**MLL3 Antibody - Additional Information****Gene ID** 58508**Other Names**

Histone-lysine N-methyltransferase 2C, Lysine N-methyltransferase 2C, 2.1.1.43, Homologous to ALR protein, Myeloid/lymphoid or mixed-lineage leukemia protein 3, KMT2C, HALR, KIAA1506, MLL3

**Target/Specificity**

This MLL3 antibody is generated from a mouse immunized with a recombinant protein of human MLL3.

**Dilution**

WB~~1:2000

E~~Use at an assay dependent concentration.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**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**

MLL3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**MLL3 Antibody - Protein Information****Name** KMT2C**Synonyms** HALR, KIAA1506, MLL3**Function** Histone methyltransferase that catalyzes methyl group transfer from

S-adenosyl-L-methionine to the epsilon-amino group of 'Lys-4' of histone H3 (H3K4) (PubMed:[25561738](#)). Part of chromatin remodeling machinery predominantly forms H3K4me1 methylation marks at active chromatin sites where transcription and DNA repair take place (PubMed:[22266653](#), PubMed:[24081332](#), PubMed:[25561738](#)). Likely plays a redundant role with KMT2D in enriching H3K4me1 mark on primed and active enhancer elements (PubMed:[24081332](#)).

#### Cellular Location

Nucleus.

#### Tissue Location

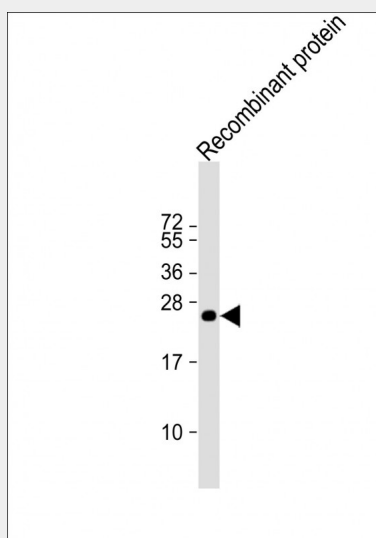
Highly expressed in testis and ovary, followed by brain and liver. Also expressed in placenta, peripheral blood, fetal thymus, heart, lung and kidney. Within brain, expression was highest in hippocampus, caudate nucleus, and substantia nigra. Not detected in skeletal muscle and fetal liver

### MLL3 Antibody - 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](#)

### MLL3 Antibody - Images



Anti-MLL3 Antibody at 1:2000 dilution + Recombinant protein at 20 ng per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 541 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

### MLL3 Antibody - Background

Histone methyltransferase. Methylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a

specific tag for epigenetic transcriptional activation. Central component of the MLL2/3 complex, a coactivator complex of nuclear receptors, involved in transcriptional coactivation. KMT2C/MLL3 may be a catalytic subunit of this complex. May be involved in leukemogenesis and developmental disorder.

### **MLL3 Antibody - References**

Ruault M.,et al.Gene 284:73-81(2002).  
Tan Y.C.,et al.Cancer Detect. Prev. 25:454-469(2001).  
Hillier L.W.,et al.Nature 424:157-164(2003).  
Nagase T.,et al.DNA Res. 7:143-150(2000).  
Nakajima D.,et al.DNA Res. 9:99-106(2002).