

**MLL4 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI10100****Specification**

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**MLL4 antibody - N-terminal region - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O9UMN6</a>
Other Accession	<a href="#">O9UMN6-2</a>
Reactivity	<b>Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Yeast</b>
Predicted Host	<b>Human, Mouse, Rat</b>
Clonality	<b>Rabbit</b>
Calculated MW	<b>Polyclonal</b> <b>64 kDa KDa</b>

**MLL4 antibody - N-terminal region - Additional Information****Gene ID** 9757**Alias Symbol** **HRX2, MLL2, TRX2, WBP7, MLL4****Other Names**

Histone-lysine N-methyltransferase 2B, Lysine N-methyltransferase 2B, Myeloid/lymphoid or mixed-lineage leukemia protein 4, Trithorax homolog 2, WW domain-binding protein 7, WBP-7, KMT2B, HRX2, KIAA0304, MLL2, MLL4, TRX2, WBP7

**Target/Specificity**

MLL4 a protein which contains multiple domains including a CXXC zinc finger, three PHD zinc fingers, two FY-rich domains, and a SET (suppressor of variegation, enhancer of zeste, and trithorax) domain. The SET domain is a conserved C-terminal domain that characterizes proteins of the MLL (mixed-lineage leukemia) family. MLL4 is ubiquitously expressed in adult tissues. It is also amplified in solid tumor cell lines, and may be involved in human cancer

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 100 ul of distilled water. Final anti-MLL4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

MLL4 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**MLL4 antibody - N-terminal region - Protein Information****Name** KMT2B

**Synonyms** HRX2, KIAA0304, MLL2, MLL4, TRX2, WBP7

### 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) via a non-processive mechanism. Part of chromatin remodeling machinery predominantly forms H3K4me1 and H3K4me2 methylation marks at active chromatin sites where transcription and DNA repair take place (PubMed:<a href="http://www.uniprot.org/citations/17707229" target="\_blank">17707229</a>, PubMed:<a href="http://www.uniprot.org/citations/25561738" target="\_blank">25561738</a>). Likely plays a redundant role with KMT2C in enriching H3K4me1 marks on primed and active enhancer elements (PubMed:<a href="http://www.uniprot.org/citations/24081332" target="\_blank">24081332</a>). Plays a central role in beta-globin locus transcription regulation by being recruited by NFE2 (PubMed:<a href="http://www.uniprot.org/citations/17707229" target="\_blank">17707229</a>). Plays an important role in controlling bulk H3K4me during oocyte growth and preimplantation development (By similarity). Required during the transcriptionally active period of oocyte growth for the establishment and/or maintenance of bulk H3K4 trimethylation (H3K4me3), global transcriptional silencing that precedes resumption of meiosis, oocyte survival and normal zygotic genome activation (By similarity).

### Cellular Location

Nucleus.

### Tissue Location

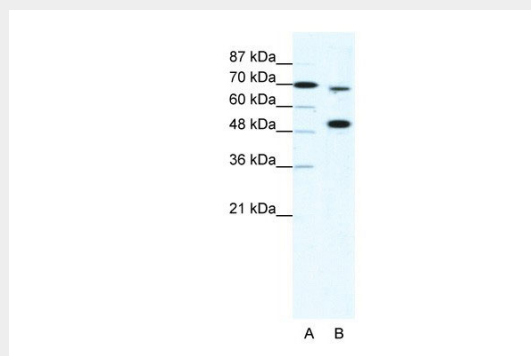
Widely expressed. Highest levels in testis. Also found in brain with higher expression in the cerebellum than in any other region, bone marrow, heart, muscle, kidney, placenta, spleen, thymus, prostate, ovary, intestine, colon, peripheral blood lymphocytes and pancreas. Often amplified in pancreatic carcinomas

### MLL4 antibody - N-terminal region - 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](#)

### MLL4 antibody - N-terminal region - Images



MLL4 antibody - N-terminal region (AI10100) in Human HepG2 cells using Western Blot  
WB Suggested Anti-MLL4 Antibody Titration: 5µg/ml  
Positive Control: HepG2 cell lysate  
KMT2B is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells

#### **MLL4 antibody - N-terminal region - Background**

This is a rabbit polyclonal antibody against MLL4. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire ([sales@abgent.com](mailto:sales@abgent.com)).