

MLL4 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2297a

Specification

MLL4 Antibody (C-Term) - Product Information

Application	IHC
Primary Accession	O9UMN6
Other Accession	NP_055542.1 , 9757 , 75410 (mouse)
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	293515

MLL4 Antibody (C-Term) - Additional Information

Gene ID 9757

Other Names

Histone-lysine N-methyltransferase 2B, Lysine N-methyltransferase 2B, 2.1.1.43, 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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MLL4 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

MLL4 Antibody (C-Term) - 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:17707229, PubMed:25561738). Likely plays a redundant role with KMT2C in enriching H3K4me1 marks on primed and active enhancer elements (PubMed:24081332). Plays a central role in beta-globin locus transcription regulation by being recruited by NFE2 (PubMed:17707229). 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

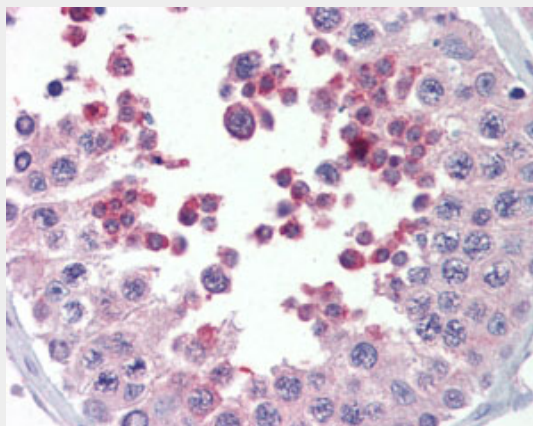
Widely expressed. Highest levels in testis. Also found in brain with higher expression in the cerebellum than in any other region, bone marrow, heart, muscle, kidney, placenta, spleen, thymus, prostate, ovary, intestine, colon, peripheral blood lymphocytes and pancreas. Often amplified in pancreatic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

MLL4 Antibody (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](#)

MLL4 Antibody (C-Term) - Images



AF2297a (5 µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

MLL4 Antibody (C-Term) - References

MLL2, the second human homolog of the *Drosophila trithorax* gene, maps to 19q13.1 and is amplified in solid tumor cell lines. Huntsman DG, Chin SF, Muleris M, Batley SJ, Collins VP, Wiedemann LM, Aparicio S, Caldas C. *Oncogene*. 1999 Dec 23;18(56):7975-84. PMID: 10637508