Product Name: MLL4 Rabbit Polyclonal Antibody
Catalog #: APRab13961

Summary

Production Name	MLL4 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	WBP7 HRX2 KIAA0304 KMT2B MLL2 MLL4 TRX2
Alternative Names	
Gene ID	9757.0
SwissProt ID	Q9UMN6.Synthesized peptide derived from human protein . at AA range: 1060-1140

Application

Dilution Ratio	IHC 1:50-300
Molecular Weight	298kD

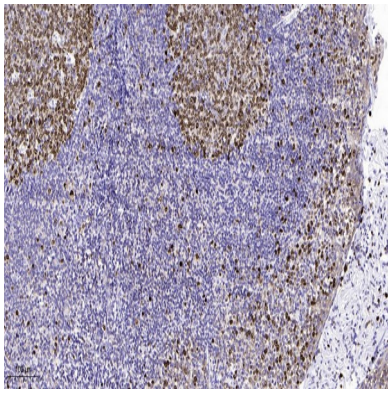
Background

This gene encodes 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. This gene is ubiquitously expressed in adult tissues. It is also amplified in solid tumor cell lines, and may be involved in human cancer. Two alternatively spliced transcript variants encoding distinct isoforms have been reported for this gene, however, the full length nature of the shorter transcript is not known. [provided by RefSeq, Jul 2008],catalytic activity:S-adenosyl-L-methionine + histone L-lysine = S-adenosyl-L-homocysteine + histone N(6)-methyl-L-lysine.,caution:This protein was first named MLL2 by PubMed:10637508 and PubMed:10409430. MLL2 corresponds to another protein located on chromosome 12 (see AC O14686).,disease:Often amplified in pancreatic carcinomas.,function:Histone methyltransferase. Methylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the histone-lysine methyltransferase family. TRX/MLL subfamily.,similarity:Contains 1 CXXC-type zinc finger.,similarity:Contains 1 post-SET domain.,similarity:Contains 1 SET domain.,similarity:Contains 3 A.T hook DNA-binding domains.,similarity:Contains 3 PHD-type zinc fingers.,subunit:Component of the MLL3/MLL4 complex, at least composed of MLL3, MLL4, ASH2L, RBBP5, DPY30, WDR5, NCOA6, KDM6A (or KDM6B), PAXIP1/PTIP and C16orf53/PA1.,tissue specificity:Widely expressed. Highest levels in testis. Also found in brain, bone marrow, heart, muscle, kidney, pancreas, spleen, thymus, prostate, ovary, intestine, colon, peripheral blood lymphocytes, and placenta.,

Research Area

Image Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200（4° overnight）. 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200（room temperature, 45min）.

Note

For research use only.