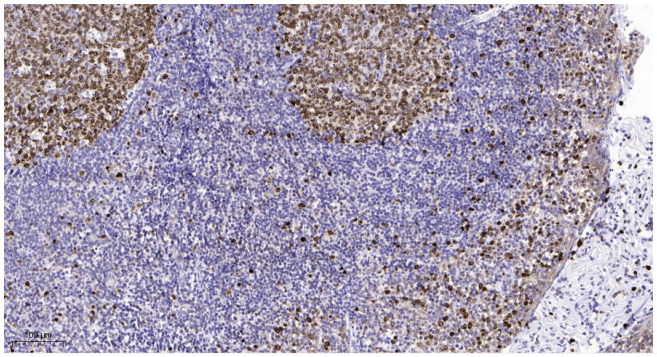
MLL4 Polyclonal Antibody

Catalog No	YP-Ab-05032
Isotype	IgG
Reactivity	Human;Mouse
Applications	IHC;IF
Gene Name	WBP7 HRX2 KIAA0304 KMT2B MLL2 MLL4 TRX2
Protein Name	Histone-lysine N-methyltransferase MLL4 (EC 2.1.1.43) (Lysine N-methyltransferase 2B) (KMT2B) (Myeloid/lymphoid or mixed-lineage leukemia protein 4) (Trithorax homolog 2) (WW domain-binding protein 7)
Immunogen	Synthesized peptide derived from human protein . at AA range: 1060-1140
Specificity	MLL4 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC-p 1:50-300. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	298kD
Cell Pathway	Nucleus .
Tissue Specificity	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.
Function	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, a
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



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).