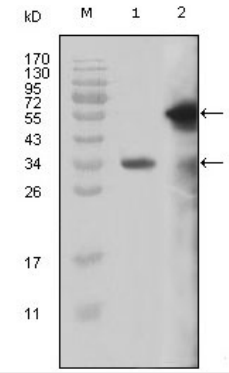
MLL Monoclonal Antibody

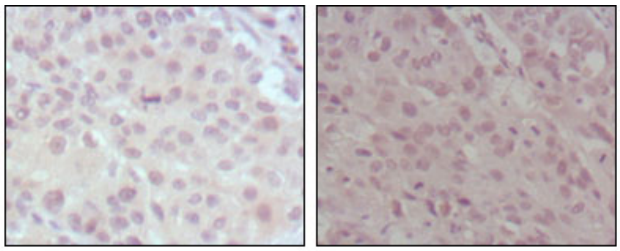
Catalog No	YP-Ab-01002
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;ELISA
Gene Name	MLL
Protein Name	Histone-lysine N-methyltransferase MLL
Immunogen	Purified recombinant fragment of MLL (aa3751-3968) expressed in E. Coli.
Specificity	MLL Monoclonal Antibody detects endogenous levels of MLL protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MLL; ALL1; CXXC7; HRX; HTRX; KMT2A; MLL1; TRX1; Histone-lysine N-methyltransferase MLL; ALL-1; CXXC-type zinc finger protein 7; Lysine N-methyltransferase 2A; KMT2A; Trithorax-like protein; Zinc finger protein HRX
Observed Band	
Cell Pathway	Nucleus .; [MLL cleavage product N320]: Nucleus.; [MLL cleavage product C180]: Nucleus. Localizes to a diffuse nuclear pattern when not associated with MLL cleavage product N320.
Tissue Specificity	Heart, lung, brain and T- and B-lymphocytes.
Function	catalytic activity:S-adenosyl-L-methionine + histone L-lysine = S-adenosyl-L-homocysteine + histone N(6)-methyl-L-lysine.,similarity:Contains 1 post-SET domain.,similarity:Contains 1 SET domain.,
Background	This gene encodes a transcriptional coactivator that plays an essential role in regulating gene expression during early development and hematopoiesis. The encoded protein contains multiple conserved functional domains. One of these domains, the SET domain, is responsible for its histone H3 lysine 4 (H3K4) methyltransferase activity which mediates chromatin modifications associated with epigenetic transcriptional activation. This protein is processed by the enzyme Taspase 1 into two fragments, MLL-C and MLL-N. These fragments reassociate and further assemble into different multiprotein complexes that regulate the transcription of specific target genes, including many of the HOX genes. Multiple chromosomal translocations involving this gene are the cause of certain acute

	lymphoid leukemias and acute myeloid leukemias. Alternate splicing results in multiple transcript variants.[provided by RefS
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



Western Blot analysis using MLL Monoclonal Antibody against truncated MLL recombinant protein (1) and truncated GFP-MLL(aa3714-3969) transfected Cos7 cell lysate (2).



Immunohistochemistry analysis of paraffin-embedded human lung cancer (left) and esophagus cancer (right), showing nuclear localization with DAB staining using MLL Monoclonal Antibody.