BT LAB
Bioassay Technology Laboratory
Optimize Your Research

MLL Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA0888
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of MLL (aa3751-3968) expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	Histone-lysine N-methyltransferase MLL
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

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.

Recommended Dilution

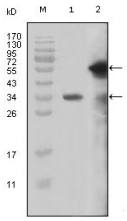
ELISA: 1:10000

IHC: 1:200 - 1:1000

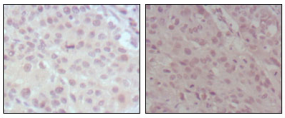
WB: 1:500 - 1:2000

Not yet tested in other applications.

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.

Storage

-20°C for one year

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