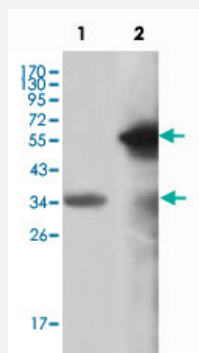


MLL monoclonal antibody, clone 10F8D7

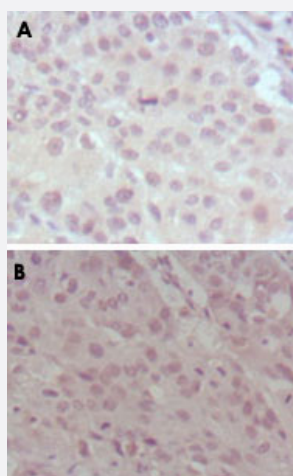
Catalog # MAB10562 Size 100 uL

Applications



Western Blot

Western blot analysis using MLL monoclonal antibody, clone 10F8D7 (Cat # MAB10562) against truncated MLL recombinant protein (1) and truncated GFP-MLL(aa 3714-3969) transfected COS-7 cell lysate (2).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human lung cancer (A) and esophagus cancer (B), showing nuclear weak staining with DAB staining using MLL monoclonal antibody, clone 10F8D7 (Cat # MAB10562).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant MLL.
Immunogen	Recombinant protein corresponding to amino acids 3751-3968 of human MLL.
Host	Mouse
Reactivity	Human

Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — MLL

Entrez GeneID	4297
Gene Name	MLL
Gene Alias	ALL-1, CXXC7, FLJ11783, HRX, HTRX1, KMT2A, MLL/GAS7, MLL1A, TET1-MLL, TRX1
Gene Description	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)
Omim ID	159555
Gene Ontology	Hyperlink

Gene Summary

The MLL gene encodes a DNA-binding protein that methylates histone H3 (see MIM 601128) lys4 (H3K4) and positively regulates expression of target genes, including multiple HOX genes (see MIM 142980). MLL is a frequent target for recurrent translocations in acute leukemias that may be characterized as acute myeloid leukemia (AML; MIM 601626), acute lymphoblastic leukemia (ALL), or mixed lineage (biphenotypic) leukemia (MLL). Leukemias with translocations involving MLL possess unique clinical and biologic characteristics and are often associated with poor prognosis. MLL rearrangements are found in more than 70% of infant leukemias, whether the immunophenotype is more consistent with ALL or AML6, but are less frequent in leukemias from older children. MLL translocations are also found in approximately 10% of AMLs in adults, as well as in therapy-related leukemias, most often characterized as AML, that develop in patients previously treated with topoisomerase II inhibitors for other malignancies. More than 50 different MLL fusion partners have been identified. Leukemogenic MLL translocations encode MLL fusion proteins that have lost H3K4 methyltransferase activity. A key feature of MLL fusion proteins is their ability to efficiently transform hematopoietic cells into leukemia stem cells (Krivtsov and Armstrong, 2007 [PubMed 17957188]).[supplied by OMIM]

Other Designations

CDK6/MLL fusion protein|MLL-AF4 der(11) fusion protein|MLL/GAS7 fusion protein|MLL/GMPS fusion protein|trithorax-like protein|zinc finger protein HRX

Disease

- [Acute Disease](#)
- [Disease Progression](#)
- [Down Syndrome](#)
- [Head and Neck Neoplasms](#)
- [Leukemia](#)
- [Myelodysplastic Syndromes](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)