10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MLLT1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6188a

Specification

MLLT1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession	Q03111
Other Accession	NP_005925

MLLT1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 4298

Other Names
Protein ENL, YEATS domain-containing protein 1, MLLT1, ENL, LTG19, YEATS1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6188a was selected from the C-term region of human MLLT1 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MLLT1 Antibody (C-term) Blocking Peptide - Protein Information

Name MLLT1

Synonyms ENL, LTG19, YEATS1

Function
Chromatin reader component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA (PubMed:20159561, PubMed:20471948). Specifically recognizes and binds acetylated and crotonylated histones, with a preference for histones that are crotonylated (PubMed:27105114). Has a slightly higher affinity for binding histone H3 crotonylated at 'Lys-27' (H3K27cr) than 'Lys-20' (H3K9cr20) (PubMed:<a

href="http://www.uniprot.org/citations/27105114" target="_blank">27105114).

Cellular Location
Nucleus.

MLLT1 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

MLLT1 Antibody (C-term) Blocking Peptide - Images

MLLT1 Antibody (C-term) Blocking Peptide - Background

Chromosome band 11q23 is the site of translocations in myeloid and lymphoid acute leukemias, pediatric leukemias, and treatment-induced secondary acute myelogenous leukemia. The translocation breakpoints cluster in a restricted region of the HRX gene resulting in chimeric genes that encode an N-terminal portion of Hrx fused to various partner proteins. Myeloid/lymphoid or mixed-lineage leukemia translocated to 1 (MLLT1) is a nuclear protein with transcriptional transactivation properties that is fused to Hrx in t(11;19) leukemias. The minimal MLLT1 sequence required for transcription activation was narrowed to the C-terminal 90 amino acids.

MLLT1 Antibody (C-term) Blocking Peptide - References

Nie, Z., et al., Mol. Cell. Biol. 23(8):2942-2952 (2003).Lavau, C., et al., Proc. Natl. Acad. Sci. U.S.A. 97(20):10984-10989 (2000).Thirman, M.J., et al., Proc. Natl. Acad. Sci. U.S.A. 91(25):12110-12114 (1994).Rubnitz, J.E., et al., Blood 84(6):1747-1752 (1994).Yamamoto, K., et al., Oncogene 8(10):2617-2625 (1993).