

# RUNX1T1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RUNX1T1.

Catalog # AT3740a

## Product Information

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<b>Application</b>	WB, IF, E
<b>Primary Accession</b>	<a href="#">Q06455</a>
<b>Other Accession</b>	<a href="#">NM_004349</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG2a Kappa
<b>Clone Names</b>	5A12
<b>Calculated MW</b>	67566

## Additional Information

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<b>Gene ID</b>	862
<b>Other Names</b>	Protein CBFA2T1, Cyclin-D-related protein, Eight twenty one protein, Protein ETO, Protein MTG8, Zinc finger MYND domain-containing protein 2, RUNX1T1, AML1T1, CBFA2T1, CDR, ETO, MTG8, ZMYND2
<b>Target/Specificity</b>	RUNX1T1 (NP_004340, 416 a.a. ~ 525 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IF~~1:50~200 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	RUNX1T1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

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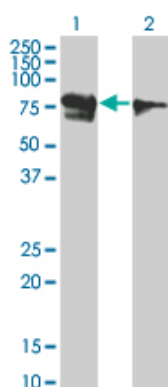
The protein encoded by this gene is a putative zinc finger transcription factor and oncoprotein. In acute myeloid leukemia, especially in the M2 subtype, the t(8;21)(q22;q22) translocation is one of the most frequent karyotypic abnormalities. The translocation produces a chimeric gene made up of the 5'-region of the RUNX1 gene fused to the 3'-region of this gene. The chimeric protein is thought to associate with the nuclear corepressor/histone deacetylase complex to block hematopoietic differentiation. Several transcript variants encoding multiple isoforms have been found for this gene.

## References

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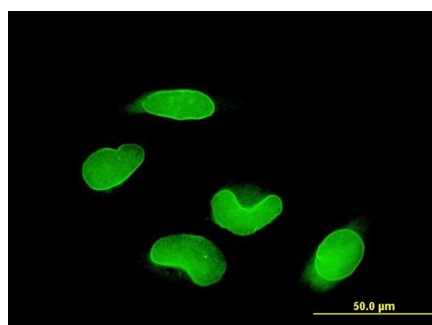
The leukemia associated ETO nuclear repressor gene is regulated by the GATA-1 transcription factor in erythroid/megakaryocytic cells. Ajore R, et al. BMC Mol Biol, 2010 May 20. PMID 20487545. Dimer-tetramer transition controls RUNX1/ETO leukemogenic activity. Wichmann C, et al. Blood, 2010 Jul 29. PMID 20430957. NHR4 domain mutations of ETO are probably very infrequent in AML1-ETO positive myeloid leukemia cells. Hackanson B, et al. Leukemia, 2010 Apr. PMID 20090777. AML1-ETO9a is correlated with C-KIT overexpression/mutations and indicates poor disease outcome in t(8;21) acute myeloid leukemia-M2. Jiao B, et al. Leukemia, 2009 Sep. PMID 19458628. RUNX1 and its fusion oncoprotein derivative, RUNX1-ETO, induce senescence-like growth arrest independently of replicative stress. Wolynec K, et al. Oncogene, 2009 Jul 9. PMID 19448675.

## Images

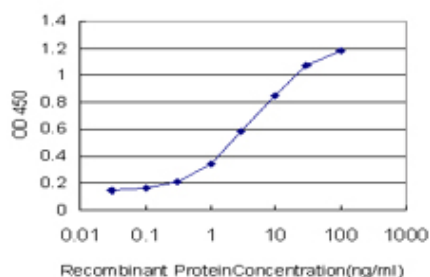


Western Blot analysis of RUNX1T1 expression in transfected 293T cell line by RUNX1T1 monoclonal antibody (M01), clone 5A12.

Lane 1: RUNX1T1 transfected lysate (67.566 KDa).  
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to RUNX1T1 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged RUNX1T1 is approximately 0.3 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.