

RUNX1T1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant RUNX1T1.****Catalog # AT3740a****Specification**

RUNX1T1 Antibody (monoclonal) (M01) - Product Information

Application	IF, WB, E
Primary Accession	Q06455
Other Accession	NM_004349
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	67566

RUNX1T1 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 862**Other Names**

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

Target/Specificity

RUNX1T1 (NP_004340, 416 a.a. ~ 525 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

RUNX1T1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

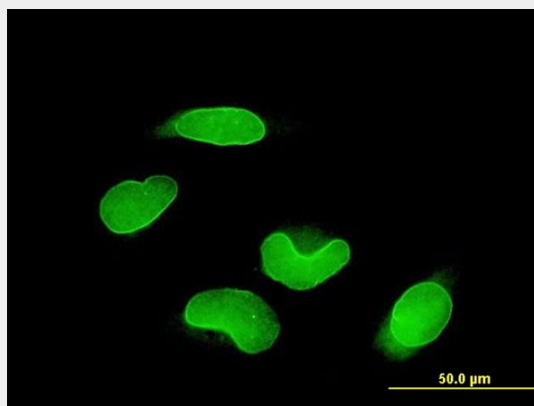
RUNX1T1 Antibody (monoclonal) (M01) - Protocols

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

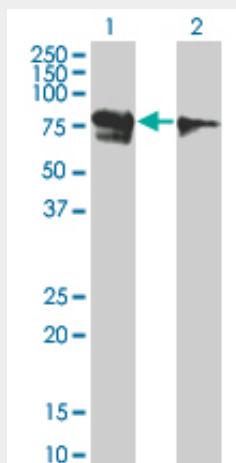
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RUNX1T1 Antibody (monoclonal) (M01) - Images



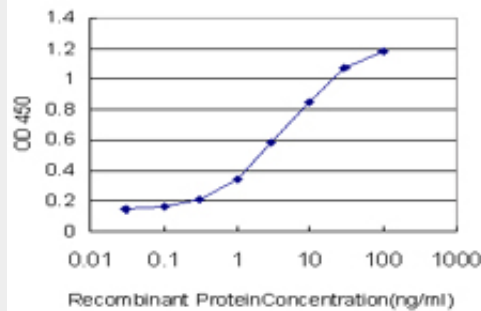
Immunofluorescence of monoclonal antibody to RUNX1T1 on HeLa cell . [antibody concentration 10 ug/ml]



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.



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

RUNX1T1 Antibody (monoclonal) (M01) - Background

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.

RUNX1T1 Antibody (monoclonal) (M01) - References

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. Wolyniec K, et al. Oncogene, 2009 Jul 9. PMID 19448675.