

**CBFA2T3 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8576b**

**Specification**

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**CBFA2T3 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">O75081</a>
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Calculated MW	71192

**CBFA2T3 Antibody - Additional Information**

**Gene ID** 863

**Other Names**

Protein CBFA2T3, MTG8-related protein 2, Myeloid translocation gene on chromosome 16 protein, hMTG16, Zinc finger MYND domain-containing protein 4, CBFA2T3, MTG16, MTGR2, ZMYND4

**Target/Specificity**

This CBFA2T3 antibody is generated from a mouse immunized with a recombinant protein between 418-653 amino acids from human CBFA2T3.

**Dilution**

WB~~1:500-1:2000

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CBFA2T3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CBFA2T3 Antibody - Protein Information**

**Name** CBFA2T3

**Synonyms** MTG16, MTGR2, ZMYND4

**Function** Transcriptional corepressor which facilitates transcriptional repression via its association with DNA-binding transcription factors and recruitment of other corepressors and

histone-modifying enzymes (PubMed:[12559562](#), PubMed:[15203199](#)). Can repress the expression of MMP7 in a ZBTB33-dependent manner (PubMed:[23251453](#)). Reduces the protein levels and stability of the transcriptional regulator HIF1A; interacts with EGLN1 and promotes the HIF1A prolyl hydroxylation-dependent ubiquitination and proteasomal degradation pathway (PubMed:[25974097](#)). Contributes to inhibition of glycolysis and stimulation of mitochondrial respiration by down-regulating the expression of glycolytic genes including PFKFB3, PFKFB4, PDK1, PFKP, LDHA and HK1 which are direct targets of HIF1A (PubMed:[23840896](#), PubMed:[25974097](#)). Regulates the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes (By similarity). Plays a role in granulocyte differentiation (PubMed:[15231665](#)).

### Cellular Location

[Isoform 1]: Nucleus, nucleolus. Note=The RUNX1- CBFA2T3 fusion protein localizes to the nucleoplasm

### Tissue Location

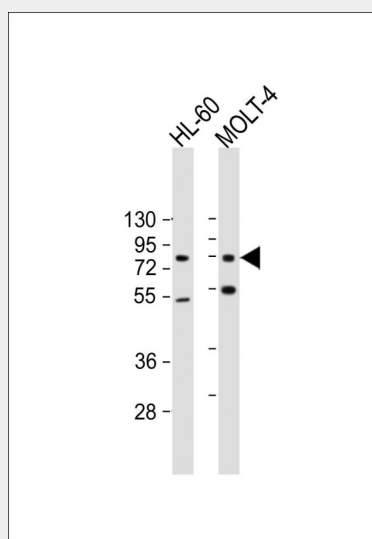
Widely expressed with higher expression in heart, pancreas, skeletal muscle, spleen, thymus and peripheral blood leukocytes. Expressed in hematopoietic cells (at protein level)

## CBFA2T3 Antibody - 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](#)

## CBFA2T3 Antibody - Images



All lanes : Anti-CBFA2T3 Antibody at 1:500-1:2000 dilution Lane 1: HL-60 whole cell lysate Lane 2: MOLT-4 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 71 kDa Blocking/Dilution

buffer: 5% NFDM/TBST.

### **CBFA2T3 Antibody - Background**

Functions as a transcriptional repressor. Regulates the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes. Plays a role in granulocyte differentiation.

### **CBFA2T3 Antibody - References**

Gamou T., et al. *Blood* 91:4028-4037(1998).

Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Calabi F., et al. *Genomics* 52:332-341(1998).

Salomon-Nguyen F., et al. *Leukemia* 14:1704-1705(2000).

La Starza R., et al. *Haematologica* 86:212-213(2001).