

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

Specification

CBFA2T3 Antibody - Product Information

Application	WB,E
Primary Accession	O75081
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

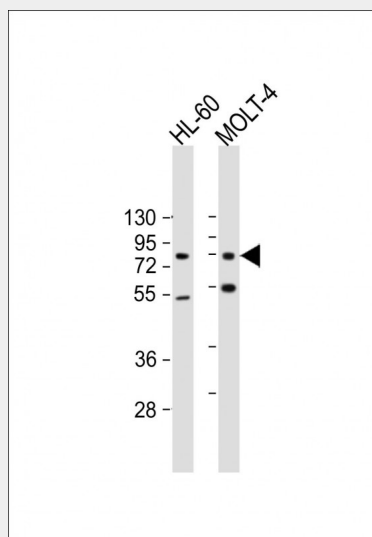
Widely expressed with higher expression in heart, pancreas, skeletal muscle, spleen, thymus and peripheral blood leukocytes. Expressed in hematopoietic cells (at protein level)

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).