

CBFA2T3 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8576b

Product Information

Application	WB, E
Primary Accession	O75081
Reactivity	Human, Mouse
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Clone Names	1719CT425.37.65
Calculated MW	71192

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 E~~Use at an assay dependent concentration.
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.

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)

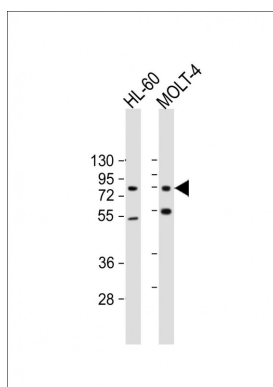
Background

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.

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).

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.

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