

CEBPE Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CEBPE.

Catalog # AT1490a

Product Information

Application	WB
Primary Accession	Q15744
Other Accession	BC035797
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	7A4
Calculated MW	30603

Additional Information

Gene ID	1053
Other Names	CCAAT/enhancer-binding protein epsilon, C/EBP epsilon, CEBPE
Target/Specificity	CEBPE (AAH35797.2, 1 a.a. ~ 281 a.a) full-length 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	CEBPE Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

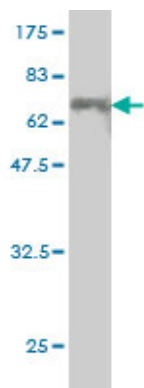
The protein encoded by this gene is a bZIP transcription factor which can bind as a homodimer to certain DNA regulatory regions. It can also form heterodimers with the related protein CEBP-delta. The encoded protein may be essential for terminal differentiation and functional maturation of committed granulocyte progenitor cells. Mutations in this gene have been associated with Specific Granule Deficiency, a rare congenital disorder. Multiple variants of this gene have been described, but the full-length nature of only one has been determined.

References

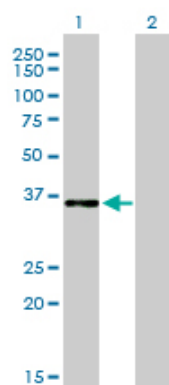
Verification of the susceptibility loci on 7p12.2, 10q21.2, and 14q11.2 in precursor B-cell acute lymphoblastic

leukemia of childhood. Prasad RB, et al. Blood, 2010 Mar 4. PMID 20042726. Loci on 7p12.2, 10q21.2 and 14q11.2 are associated with risk of childhood acute lymphoblastic leukemia. Papaemmanuil E, et al. Nat Genet, 2009 Sep. PMID 19684604. Inflammatory cytokine production by human neutrophils involves C/EBP transcription factors. Cloutier A, et al. J Immunol, 2009 Jan 1. PMID 19109189. Human C/EBP-epsilon activator and repressor isoforms differentially reprogram myeloid lineage commitment and differentiation. Bedi R, et al. Blood, 2009 Jan 8. PMID 18832658. C/EBPalpha and C/EBPvarepsilon induce the monocytic differentiation of myelomonocytic cells with the MLL-chimeric fusion gene. Matsushita H, et al. Oncogene, 2008 Dec 4. PMID 18776924.

Images

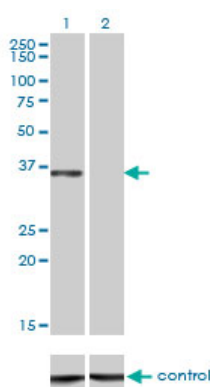


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (56.65 KDa) .



Western Blot analysis of CEBPE expression in transfected 293T cell line by CEBPE monoclonal antibody (M01), clone 7A4.

Lane 1: CEBPE transfected lysate (30.6 KDa).
Lane 2: Non-transfected lysate.



Western blot analysis of CEBPE over-expressed 293 cell line, cotransfected with CEBPE Validated Chimera RNAi (Cat # AT1490a)

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