

Mouse anti-Human CBFB Monoclonal Antibody | anti-CBFB antibody

Mouse monoclonal antibody Anti-Human CBFB

CATALOG # AAA36460	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, Immunocytochemistry, Dot Blot
------------------------------	----------------------	----------------------------	--

PRODUCT SYNONYMS

CBFB; Monoclonal Antibody; Mouse monoclonal antibody Anti-Human CBFB; Homo sapiens core-binding factor; beta subunit ; PEBP2B; anti-CBFB antibody

PRODUCT SPECIFICATIONS

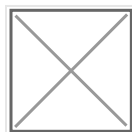
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	344C3a
Concentration	100 ug/ml (1.0 ml) (varies by lot)
Sequence Length	3181
Applicable Applications for anti-CBFB antibody	WB (Western Blot), ICC (Immunocytochemistry), DB (Dot Blot)
Preparation	This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.
Sterility	Filtered through a 0.22 um membrane.

IMAGES



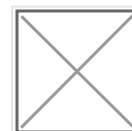
ICC (Immunocytochemistry)

Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were immunostained with anti-CBFB mAb. [Lot No.344C3a-1]



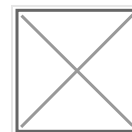
Quality Control #2

Arrow indicates the region of immunized recombinant protein carrying 50-200 amino acids.



WB (Western Blot)

Detection of human CBFB by Western blot. Samples: Whole cell lysate (25 ug) from HEK293 cells. [Lot No. 344C3a-1] Predicted molecular weight: 21 kDa



Quality Control

Western blot analysis of immunized recombinant protein, using anti-CBFB monoclonal antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CBFB antibody	The protein encoded by this gene is the beta subunit of a heterodimeric core-binding transcription factor belonging to the PEBP2/CBF transcription factor family which master-regulates a host of genes specific to hematopoiesis (e.g., RUNX1) and osteogenesis (e.g., RUNX2). The beta subunit is a non-DNA binding regulatory subunit; it allosterically enhances DNA binding by alpha subunit as the complex binds to the core site of various enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers and GM-CSF promoters. Alternative splicing generates two mRNA variants, each encoding a distinct carboxyl terminus. In some cases, a pericentric inversion of chromosome 16 [inv(16)(p13q22)] produces a chimeric transcript consisting of the N terminus of core-binding factor beta in a fusion with the C-terminal portion of the smooth muscle myosin heavy chain 11. This chromosomal rearrangement is associated with acute myeloid leukemia of the M4Eo subtype. Two transcript variants encoding different isoforms have been found for this gene. [NCBI Entrez Gene Summary]
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	47132615
NCBI GeneID	865
NCBI Accession #	NP_001746.1
NCBI GenBank Nucleotide #	NM_001755
Molecular Weight	21,991 Da
NCBI Official Full Name	Homo sapiens core-binding factor, beta subunit (CBFB), transcript variant 2, mRNA
NCBI Official Synonym Full Names	core-binding factor, beta subunit
NCBI Official Symbol	CBFB
NCBI Official Synonym Symbols	PEBP2B
NCBI Protein Information	core-binding factor subunit beta; CBF-beta; PEA2-beta; PEBP2-beta; SL3-3 enhancer factor 1 beta subunit; SL3-3 enhancer factor 1 subunit beta; SL3/AKV core-binding factor beta subunit; polyomavirus enhancer binding protein 2, beta subunit; polyomavirus enhancer-binding protein 2 beta subunit
UniProt Gene Name	CBFB
UniProt Entry Name	PEBB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.