CBFB Antibody

PRODUCT OVERVIEW

Product Name	CBFB, Antibody
Full Product Name	CBFB Antibody
Product Gene Name	anti-CBFB antibody
Molecular Weight	21,991 Da
OMIM	121360
3D Structure	ModBase 3D Structure for Q13951
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CBFB antibody	MBS8500797 is an antibody targeting CBFB. Also known as CBFB Antibody.
Other Notes	Small volumes of anti-CBFB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CBFB. It may not necessarily be applicable to this product.

NCBI GI #	13124873
NCBI GeneID	865
NCBI Accession #	NP_001746.1
UniProt Primary Accession #	Q13951
UniProt Secondary Accession #	Q13124; Q9HCT2; A8K347
UniProt Related Accession #	Q13951
GenBank Nucleotide #	NM_001755.2
NCBI Official Full Name	core-binding factor subunit beta isoform 2
NCBI Official Synonym Full Names	core-binding factor subunit beta
NCBI Official Symbol	CBFB
NCBI Official Synonym Symbols	PEBP2B
UniProt Protein Name	Core-binding factor subunit beta
UniProt Synonym Protein Names	Polyomavirus enhancer-binding protein 2 beta subunit; PEA2-beta; PEBP2-beta; SL3-3 enhancer factor 1 subunit beta; SL3/AKV core-binding factor beta subunit
Protein Family	Core-binding factor
UniProt Gene Name	CBFB
UniProt Synonym Gene Names	CBF-beta; PEA2-beta; PEBP2-beta
NCBI Protein Information	core-binding factor subunit beta

NCBI Summary for CBFB	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. [provided by RefSeq, Jul 2008]
UniProt Comments for CBFB	CBF binds to the core site, 5'-PYGPYGGT-3', of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, LCK, IL3 and GM-CSF promoters. CBFB enhances DNA binding by RUNX1.
Research Articles on CBFB	**1.** the presented study demonstrates that CBFB-MYH11-based MRD status during the first 3 months after allo-HCT, but not KIT mutations, can be used to identify patients with a high risk of relapse.
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