CBFB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CBFB, Polyclonal Antibody
Full Product Name	CBFB Antibody, HRP conjugated
Product Gene Name	anti-CBFB antibody
Product Synonym Names	Core-binding factor subunit beta; CBF-beta; CBFB; 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
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: CBFB (MBS1495063) HRP Conjugated Antibody: CBFB (MBS1494680)
Molecular Weight	21,991 Da
OMIM	121360
3D Structure	ModBase 3D Structure for Q13951
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	HRP
Immunogen	Recombinant human Core-binding factor subunit beta protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-17181 / sc-20693
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CBFB antibody	ELISA (EIA)
Related Product Information for anti-CBFB antibody	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.
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.
Searchable Terms for CBFB purchase	MBS1494680 is an antibody targeting CBFB. Also known as CBFB Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

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, beta subunit
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
UniProt Entry Name	PEBB_HUMAN
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	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. A chromosomal aberration involving CBFB is associated with acute myeloid leukemia of M4EO subtype. Pericentric inversion inv(16)(p13;q22). The inversion produces a fusion protein that consists of the 165 N-terminal residues of CBF-beta (PEPB2) with the tail region of MYH11. Belongs to the CBF-beta family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Oncoprotein; Transcription factor Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: membrane; nucleus Molecular Function: DNA binding; protein binding; transcription coactivator activity; transcription factor activity Biological Process: cell maturation; lymphocyte differentiation; myeloid cell differentiation; osteoblast differentiation; positive regulation of transcription from RNA polymerase II promoter; protein polyubiquitination; transcription from RNA polymerase II promoter
Research Articles on CBFB	**1.** Our findings demonstrate that HSPCs exposed to non-cytotoxic levels of environmental chemicals and chemotherapeutic agents are prone to topoisomerase II-mediated DNA damage at the leukemia-associated genes MLL and CBFB.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/cbfb/1494680