

DNAxPAb

Hard-to-Find
Antibody

CBFB DNAxPab

Catalog # H00000865-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human CBFB DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MPRVVPDQRSKFENEFFRKLSRECEIKYTGFRDRPHEERQARFQNACRDGRSEIAFVATGTNL SLQFFPASWQGEQRQTPSREYVDLEREAGKVYLKAPMILNGVCVMWKGWIDLQRLDGMGCLEFD EERAQQEDALAQQAFEEARRRTREFEDRDRSHREEMEARQQDPSPGSNLGGDDLKLR
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — CBFB

Entrez GeneID [865](#)

GeneBank Accession# [NM_022845.2](#)

Protein Accession# [NP_074036.1](#)

Gene Name CBFB

Gene Alias PEBP2B

Gene Description core-binding factor, beta subunit

Omim ID [121360](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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]

Other Designations SL3-3 enhancer factor 1 beta subunit|SL3/AKV core-binding factor beta subunit|polyomavirus enhancer binding protein 2, beta subunit