

CBFb Antibody

ALTERNATE NAMES: PEBP2B, CBF-beta, PEA2-beta, PEB2-beta

CATALOG #: 6835-50

AMOUNT: 50 µl

HOST/ISOTYPE: Rabbit

IMMUNOGEN: Polyclonal antibody raised in rabbit against human CBFb (core-binding factor, beta subunit) using two KLH conjugated synthetic peptides containing sequences from the central region of the protein.

FORM: Liquid

FORMULATION: In PBS with 0.05% (W/V) sodium azide.

PURIFICATION: Whole antiserum from rabbit

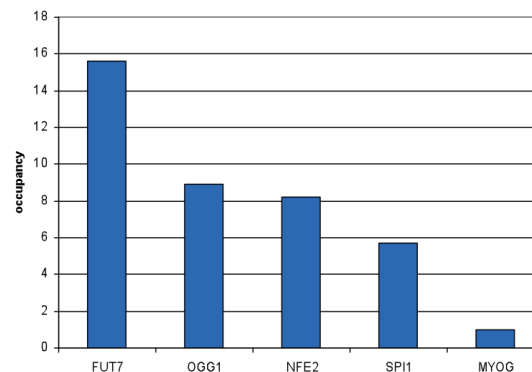
SPECIES REACTIVITY: Human.

STORAGE CONDITIONS: Store at -20°C; for long storage, store at -80°C. Avoid multiple freeze-thaw cycles.

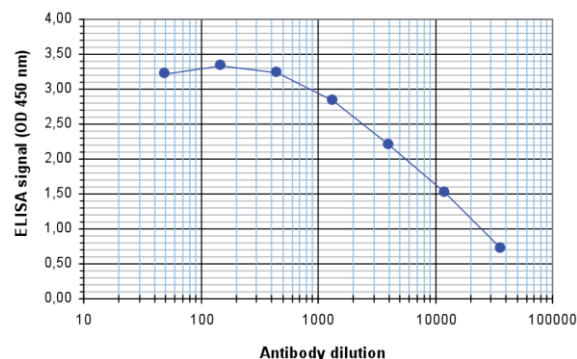
DESCRIPTION: CBFb represents the beta subunit of a heterodimeric core-binding transcription factor belonging to the PEBP2/CBF transcription factor family. These transcription factors regulate a host of genes specific to hematopoiesis (e.g. RUNX1) and osteogenesis (e.g. RUNX2). The beta subunit is the regulatory subunit which allosterically enhances the activity of the DNA binding alpha subunit as the complex binds to the core site of various enhancers and promoters. CBFb can be involved in a chromosomal rearrangement of chromosome 16 (inv(16)(p13q22)) which produces a fusion protein consisting of the N terminus of CBFb and the C-terminal portion of MYH11. This chromosomal rearrangement is associated with acute myeloid leukemia of the M4Eo subtype.

APPLICATION: ChIP: 4 µl/ChIP, ELISA: 1:500.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



ChIP assays were performed using SKNO-1 cells, the antibody and optimized primer pairs for qPCR. Sheared chromatin from 1.25 million cells and 4 µl of antibody were used per ChIP experiment. QPCR was performed using primers specific for the FUT7, NFE2, OGG1 and SPI1 genes. Figure 1 shows the occupancy, calculated as the ratio + control/background for which the H2B gene was used.



An ELISA was performed using a serial dilution of the antibody. The plates were coated with the peptide used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:8800.

RELATED PRODUCTS:

- Runx2 Antibody (Cat # 6773-100)
- Runx1-ETO Antibody (Cat # 6829-50)
- DNA Binding Protein-7 (DBP-7) Antibody (Cat # 3933-100)
- DNA Binding Protein-7 (DBP-7), human recombinant (Cat # 7603-20, -100, -1000)

FOR RESEARCH USE ONLY! Not to be used on humans.

