

Datasheet for ABIN6655308
anti-CBFB antibody (Internal Region)



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6 Images

Overview

Quantity:	100 µL
Target:	CBFB
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CBFB antibody is un-conjugated
Application:	ELISA, Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Immunogen: Anti-CBFB Antibody was produced in rabbits by repeated immunizations with human CBFB using two synthetic peptides containing sequences from the internal region of the protein. Immunogen Type: Peptide
Purification:	Anti-CBFB Antibody is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. This product reacts with human CBFB. Cross reactivity with CBFB from other sources is not known.

Target Details

Target:	CBFB
Alternative Name:	CBFB (CBFB Products)

Target Details

Background: Synonyms: Core-binding factor subunit beta, CBF-beta, 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

Background: 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 haematopoiesis (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 leukaemia of the M4Eo subtype. Anti-CBFb Antibody is ideal for research in Gene Expression, Cell Differentiation and Cancer.

Gene Name: CBFb

Gene ID: 12400

NCBI Accession: [NP_001154928](#)

UniProt: [Q08024](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

Application Details

Application Notes: Application Note: Anti-CBFb Antibody is suitable for Chromatin Immunoprecipitation and ELISA. Specific conditions for reactivity should be optimized by the end user.

ChIP Dilution: 4 µL/ChIP

ELISA Dilution: 1:500

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 0.01 % (w/v) Sodium Azide

Stabilizer: None

Preservative: Sodium azide

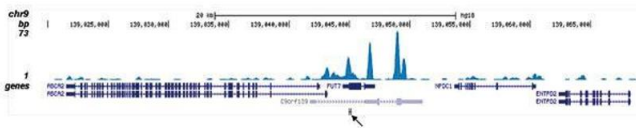
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

should be handled by trained staff only.

Storage: RT, 4 °C, -20 °C

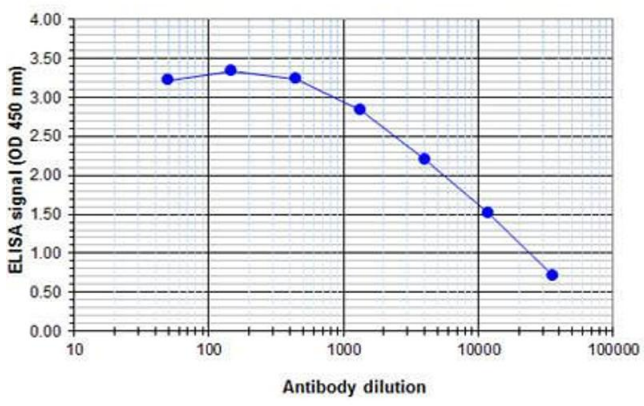
Storage Comment: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Images



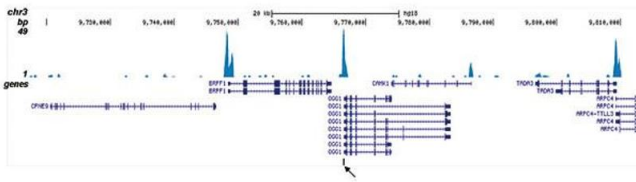
ChIP DNA-Sequencing

Image 1. ChIP-seq results obtained with the antibody directed against CBFb. ChIP was performed as described in figure 1. The IP'd DNA from 6 ChIP's were pooled and analysed with an Illumina Genome Analyzer. Library preparation, cluster generation, and sequencing were performed according to the manufacturer's instructions. The 32 bp tags were aligned to the human reference genome (hg18) using the ELAND algorithm. Figure 2 shows the results of the complete chromosome 3. Figure 3-5 shows three genomic regions region surrounding the OGG1, FUT7 and NFE2 genes, respectively. The position of the PCR amplicon is indicated with an arrow.



ELISA

Image 2. ELISA results of Rabbit anti-human CBFb antibody. ELISA results of Rabbit anti-human CBFb antibody. Antigen: BSA conjugated CBFb. Coating amount: 0.1 µg per well. Dilution series: serial dilution. Estimated Antibody Titer to be 1:8,800. Substrate: TMB .



ChIP DNA-Sequencing

Image 3. ChIP-seq against CBFb. ChIP-seq results obtained with the antibody directed against CBFb. ChIP was performed as described in figure 1. The IP'd DNA from 6 ChIP's were pooled and analysed with an Illumina Genome Analyzer. Library preparation, cluster generation, and sequencing were performed according to the manufacturer's instructions. The 32 bp tags were aligned to the human reference genome (hg18) using the ELAND algorithm. Figure 2 shows the results of the complete chromosome 3. Figure 3-5 shows three genomic regions surrounding the OGG1, FUT7 and NFE2 genes, respectively. The position of the PCR amplicon is indicated with an arrow.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6655308.