

## CBFB Antibody (internal region, near C-Term)

Peptide-affinity purified goat antibody Catalog # AF4001a

## **Specification**

## CBFB Antibody (internal region, near C-Term) - Product Information

Application WB

Primary Accession <u>Q13951</u>

Other Accession NP 074036.1, NP 001746.1, 865, 12400

(mouse)

Reactivity Human
Predicted Mouse, Dog

Host Goat
Clonality Polyclonal
Concentration 0.5 mg/ml
Isotype IgG

Calculated MW 21508

## CBFB Antibody (internal region, near C-Term) - Additional Information

### Gene ID 865

#### **Other Names**

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, CBFB

#### **Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

## **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

CBFB Antibody (internal region, near C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

## CBFB Antibody (internal region, near C-Term) - Protein Information

## Name CBFB

#### **Function**

Forms the heterodimeric complex core-binding factor (CBF) with RUNX family proteins (RUNX1, RUNX2, and RUNX3). RUNX members modulate the transcription of their target genes through recognizing the core consensus binding sequence 5'-TGTGGT-3', or very rarely, 5'- TGCGGT-3', within their regulatory regions via their runt domain, while CBFB is a non-DNA-binding regulatory



subunit that allosterically enhances the sequence-specific DNA-binding capacity of RUNX. The heterodimers bind to the core site of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T- cell receptor enhancers, LCK, IL3 and GM-CSF promoters. CBF complexes repress ZBTB7B transcription factor during cytotoxic (CD8+) T cell development. They bind to RUNX-binding sequence within the ZBTB7B locus acting as transcriptional silencer and allowing for cytotoxic T cell differentiation.

**Cellular Location** Nucleus.

### CBFB Antibody (internal region, near C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## CBFB Antibody (internal region, near C-Term) - Images



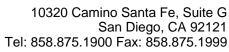
AF4001a (0.3  $\mu$ g/ml) staining of Daudi lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

# CBFB Antibody (internal region, near C-Term) - Background

This antibody is expected to recognize reported isoform 1 (NP\_074036.1) only, however it is expected to recognize reported mouse isoforms 1 (NP\_071704.3), 2 (NP\_001154928.1) and 3 (NP\_001154929.1).

## CBFB Antibody (internal region, near C-Term) - References

Vif proteins of human and simian immunodeficiency viruses require cellular CBF? to degrade





APOBEC3 restriction factors. Hultquist JF, Binka M, LaRue RS, Simon V, Harris RS. Journal of virology 2012 Mar 86 (5): 2874-7. PMID: 22205746