10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# CBFb Antibody

Rabbit mAb
Catalog # AP91938

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, IF, FC, ICC, IHF |
| **Primary Accession** | Q13951 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | CBFB; CBFbeta; PEA2; PEA2 beta; PEA2beta; PEBP2 beta; PEBP2B; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 21508 |

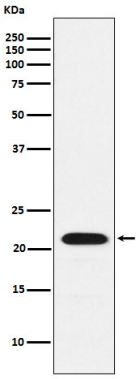
## Additional Information

| | |
|---|---|
| **Dilution** | WB 1:500~1:1000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:500 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human CBFb |
| **Description** | 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. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## 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 {ECO:0000250\|UniProtKB:Q08024}. |

## Images




Western blot analysis of CBFb expression in K562 cell lysate.