

KD-Validated Anti-Core-binding factor subunit beta Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1223

Product Information

Application	WB, FC
Primary Accession	Q13951
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB3785
Calculated MW	21508
Gene Name	CBFB
Aliases	CBFB; Core-Binding Factor Subunit Beta; PEBP2B; SL3/AKV Core-Binding Factor Beta Subunit; SL3-3 Enhancer Factor 1 Subunit Beta; Core-Binding Factor Beta Subunit; PEBP2-Beta; PEA2-Beta; CBF-Beta; Polyomavirus Enhancer Binding Protein 2, Beta Subunit; Polyomavirus Enhancer-Binding Protein 2 Beta Subunit; SL3-3 Enhancer Factor 1 Beta Subunit; Core-Binding Factor, Beta Subunit; CLCD2
Immunogen	A synthesized peptide derived from human CBFb

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

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}.

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