

# PEBP2 $\beta$ rabbit pAb

Cat No.:ES3174

For research use only

## Overview

Product Name	PEBP2 $\beta$ rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human CBF beta. AA range:11-60
Specificity	PEBP2 $\beta$ Polyclonal Antibody detects endogenous levels of PEBP2 $\beta$ protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Core-binding factor subunit beta
Gene Name	CBFB
Cellular localization	Nucleus .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	22kD
Human Gene ID	865
Human Swiss-Prot Number	Q13951
Alternative Names	CBFB; 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	The protein encoded by this gene is the beta subunit

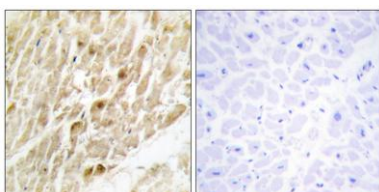


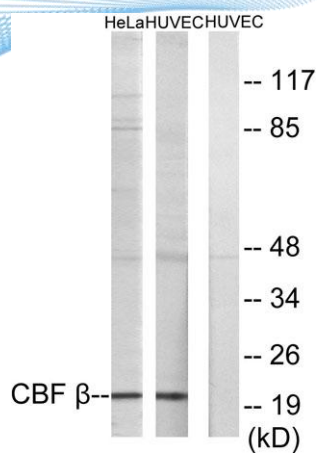
of a heterodimeric core-binding transcription factor belonging to the PEBP2/CBF transcription factor family which master-regulates a host of genes specific to hematopoiesis (e.g., RUNX1) and osteogenesis (e.g., RUNX2). The beta subunit is a non-DNA binding regulatory subunit; it allosterically enhances DNA binding by alpha subunit as the complex binds to the core site of various enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers and GM-CSF promoters. Alternative splicing generates two mRNA variants, each encoding a distinct carboxyl terminus. In some cases, a pericentric inversion of chromosome 16 [inv(16)(p13q22)] produces a chimeric transcript consisting of the N terminus of core-binding factor beta in a fusion with the C-terminal portion of the smooth muscle myosin heavy chain 11.



Western Blot analysis of various cells using PEBP2 $\beta$   
 Polyclonal Antibody cells nucleus extracted by Minute TM  
 Cytoplasmic and Nuclear Fractionation kit  
 (SC-003, Inventbiotech, MN, USA).

Immunohistochemistry analysis of paraffin-embedded human heart tissue, using CBF beta Antibody. The picture on the right is blocked with the synthesized peptide.





Western blot analysis of lysates from HUVEC and HeLa cells, using CBF beta Antibody. The lane on the right is blocked with the synthesized peptide.

