

Product datasheet for **AP20442PU-S**

CBFB Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections 1/50 - 1/200. Immunofluorescence: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of PEBP2beta protein. (region surrounding Arg33)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 22 kDa
Gene Name:	core-binding factor, beta subunit
Database Link:	<u>Entrez Gene 12400 Mouse</u> <u>Entrez Gene 361391 Rat</u> <u>Entrez Gene 865 Human</u> <u>Q13951</u>



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Background:

The transcription factor Polyomavirus enhancer binding protein 2 (PEBP2), also designated Osf2 (Osteoblast-specific transcription factor), CBFA1 (Core Binding Factor) and AML3 (Acute myeloid leukemia), is composed of two subunits, alpha and beta, which are essential for the regulation of hematopoiesis and osteogenesis. The PEBP2alpha subunits, PEBP2alphaA, PEBP2alphaB and PEBP2alphaC, are encoded by three RUNX genes, all of which contain a 128-amino acid region homologous to the highly conserved Drosophila segmentation gene, runt. This region is involved in DNA binding and heterodimerization with the regulatory beta subunit, which facilitates DNA binding of the alpha subunit. Both subunits are required for in vivo function; the disruption of either gene results in a lack of definitive hematopoiesis followed by embryo death in utero due to hemorrhage in the central nervous system. The gene encoding PEBP2beta is the target of chromosomal inversion 16 (p13;q22) with the smooth muscle myosin heavy chain, producing a chimeric gene, PEBP2beta/CBFbeta-SMMHC, that is associated with human acute myeloid leukemia.

Synonyms:

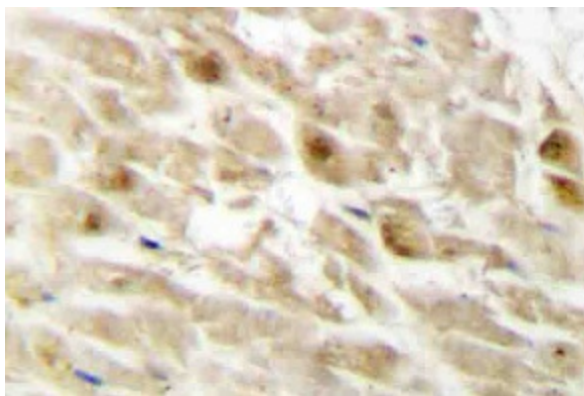
Core-binding factor beta, CBF-beta, CBF beta, PEBP2-beta, PEA2-beta

Protein Families:

Druggable Genome, Transcription Factors

Product images:

Western blot (WB) analysis of PEBP2beta antibody (Cat.-No.: AP202442PU-N) in extracts from HUVEC



Immunohistochemistry (IHC) analyzes of PEBP2beta antibody (Cat.-No.: AP202442PU-N) in paraffin-embedded human heart tissue.