

Rabbit CBF beta Polyclonal Antibody | anti-CBFB antibody

CBF beta Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323973	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

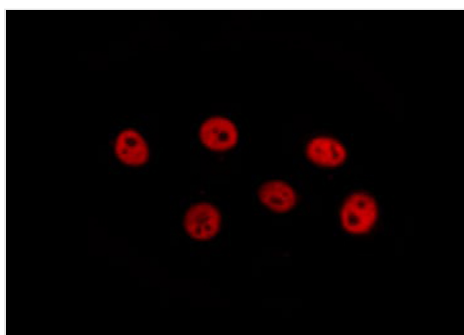
PRODUCT SYNONYMS

CBF beta; Polyclonal Antibody; CBF beta Antibody; CBF b; CBF-beta; CBFB; CBFbeta; Core binding factor beta subunit; core binding factor subunit beta; Core-binding factor subunit beta; PEA 2; PEA2; PEA2 beta; PEA2-beta; PEA2beta; PEBB_HUMAN; PEBP 2B; PEBP2 beta; PEBP2-beta; PEBP2B; PEBP2beta; Polyomavirus enhancer binding protein 2 beta subunit; Polyomavirus enhancer-binding protein 2 beta subunit; SL3 3 enhancer factor 1 beta subunit; SL3 3 enhancer factor 1 subunit beta; SL3-3 enhancer factor 1 subunit beta; SL3/AKV core binding factor beta subunit; SL3/AKV core-binding factor beta subunit; anti-CBFB antibody

PRODUCT SPECIFICATIONS

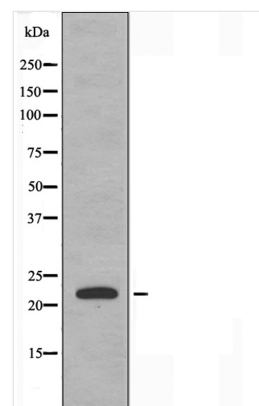
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	CBF beta Antibody detects endogenous levels of total CBF beta.
Purity/Purification	Peptide affinity purification
Form/Format	IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CBFB antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CBF beta, corresponding to a region within N-terminal amino acids.
Preparation and Storage	Store at -20°C

IMAGES



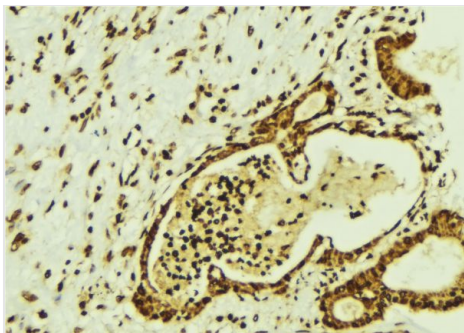
IF (Immunofluorescence)

AAA323973 staining HuvEc cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



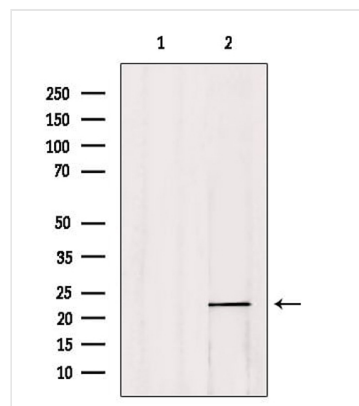
WB (Western Blot)

Western blot analysis of extracts from HeLa cells using CBF beta antibody.



IHC (Immunohistochemistry)

AAA323973 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from 293, using CBF beta Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CBFB antibody

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.

Subunit Structure: Heterodimer with RUNX1, RUNX2 and RUNX3. Interacts with COPRS. Found in a complex with PRMT5 and RUNX1.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13124873
NCBI GeneID	865
NCBI Accession #	NP_001746.1
NCBI GenBank Nucleotide #	NM_001755.2
UniProt Accession #	Q13951; Q13124; Q9HCT2; A8K347
Molecular Weight	22 KD
NCBI Official Full Name	core-binding factor subunit beta isoform 2
NCBI Official Synonym Full Names	core-binding factor subunit beta
NCBI Official Symbol	CBFB
NCBI Official Synonym Symbols	PEBP2B
NCBI Protein Information	core-binding factor subunit beta
UniProt Protein Name	Core-binding factor subunit beta
UniProt Gene Name	CBFB
UniProt Synonym Gene Names	CBF-beta; PEA2-beta; PEBP2-beta

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

