

Store at
-20C
#12902**CBF β Antibody**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M Mk	Endogenous	22	Rabbit	#Q13951	865

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CBF β Antibody recognizes endogenous levels of total CBF β protein.

Species predicted to react based on 100% sequence homology

Bovine

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro36 of human CBF β protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Core-binding factor subunit β (CBF β) is a non-DNA binding transcription factor subunit that associates with and regulates the DNA binding activity of RUNX1, RUNX2, and RUNX3 (1). CBF β is ubiquitously expressed and has been implicated in a variety of developmental processes including hematopoiesis, T cell development, chondrogenesis, and bone formation (2-7). In addition, investigators have identified CBF β as one of the most frequently translocated genes in leukemia (8) and research studies have found it to be required for HIV immune evasion (9,10). CBF β interacts with the viral protein VIF and triggers assembly of a ubiquitin ligase complex that targets the retroviral inhibitor APOBEC3G for degradation (9,10).

Background References

1. Ogawa, E. et al. (1993) *Virology* 194, 314-31.
2. Wang, Q. et al. (1996) *Cell* 87, 697-708.
3. Talebian, L. et al. (2007) *Blood* 109, 11-21.
4. Johnson, K. et al. (2012) *Science* 336, 717-21.
5. Yoshida, C.A. et al. (2002) *Nat Genet* 32, 633-8.
6. Miller, J. et al. (2002) *Nat Genet* 32, 645-9.
7. Kundu, M. et al. (2002) *Nat Genet* 32, 639-44.
8. Goyama, S. and Mulloy, J.C. (2011) *Int J Hematol* 94, 126-33.
9. Jäger, S. et al. (2012) *Nature* 481, 371-5.
10. Zhang, W. et al. (2012) *Nature* 481, 376-9.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBST, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **Mk:** Monkey

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