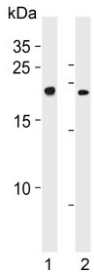
# CBFB Antibody (F54434)

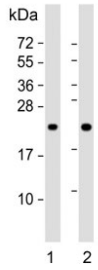
| Catalog No. | Formulation | Size |
|---|---|---|
| F54434-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F54434-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

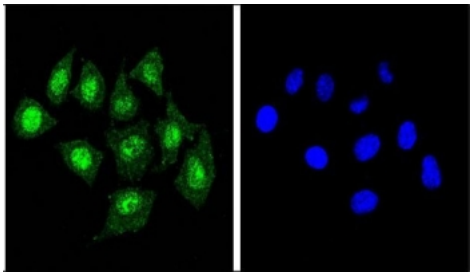
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity purified |
| **UniProt** | Q13951 |
| **Localization** | Nuclear |
| **Applications** | Western blot: 1:500-1:2000<br>Immunofluorescence: 1:25<br>Flow cytometry: 1:25 (1x10e6 cells)<br>Immunohistochemistry (FFPE): 1:25 |
| **Limitations** | This CBFB antibody is available for research use only. |



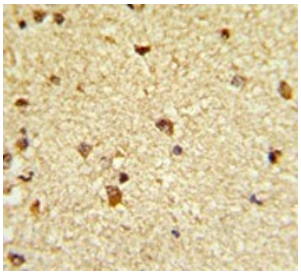

Western blot testing of 1) human K562 and 2) mouse lung lysate with CBFB antibody. Predicted molecular weight ~22 kDa.



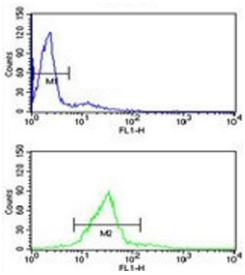

Western blot testing of human 1) Jukat and 2) Raji cell lysate with CBFB antibody. Predicted molecular weight ~22 kDa.



Immunofluorescent staining of human HEK293 cells with CBFB antibody (green) and DAPI nuclear stain (blue).



IHC testing of FFPE human brain tissue with CBFB antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.




Flow cytometry testing of human HL60 cells with CBFB antibody; Blue=isotype control, Green= CBFB antibody.

## Description

Core-binding factor subunit beta 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.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the CBFB antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 61-90 from the human protein was used as the immunogen for the CBFB antibody.

## Storage

Aliquot the CBFB antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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