

CBFB / PEBP2? Antibody

Mouse Monoclonal Antibody [Clone PCR-P-CBFB-1E6]

| Catalog No | Format | Size |
|----------------|---|--------|
| 865-MSM9-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 865-MSM9-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 865-MSM9-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

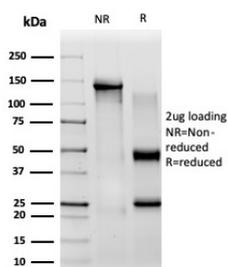
| Applications | Tested Dillution | Note |
|-------------------------|---------------------|------|
| Flow Cytometry (Flow) | 1-2ug/million cells | |
| Immunofluorescence (IF) | 1-3ug/ml | |
| Western Blot (WB) | 2-4ug/ml | |

Product Details

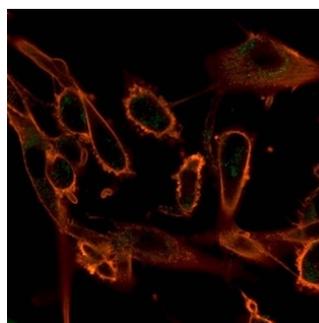
| | |
|-------------------------------|--|
| Clone | PCR-P-CBFB-1E6 |
| Gene Name | CBFB |
| Immunogen | Recombinant full-length human CBFB protein |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype / Light Chain | IgG2a |
| Mol. Weight of Antigen | 22kDa |
| Cellular Localization | Nucleus |
| Species Reactivity | Human |
| Positive Control | HeLa, U87 or Jurkat cells. |

*Optimal dilution for a specific application should be determined.

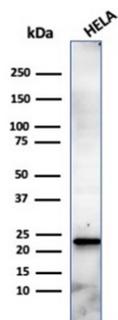
Product Images for CBFB / PEBP2? Antibody



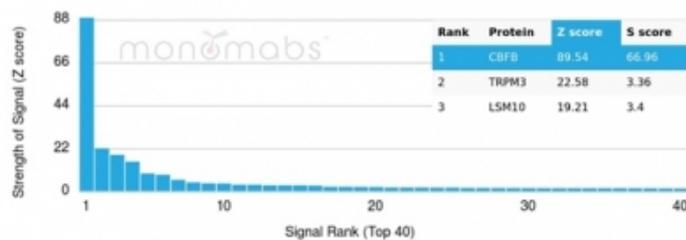
SDS-PAGE Analysis of Purified CBFB Mouse Monoclonal Antibody (PCR-P-CBFB-1E6). Confirmation of Purity and Integrity of Antibody.



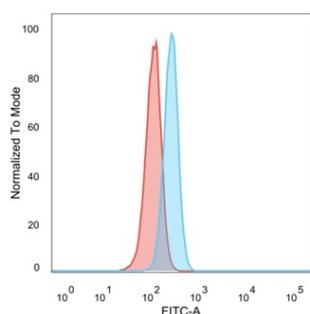
Immunofluorescence Analysis of PFA-fixed U87 cells stained using CBFB Mouse Monoclonal Antibody (PCR-P-CBFB-1E6) followed by goat anti-mouse IgG-CF488 (green). CF640R phalloidin (red).



Western blot analysis of HeLa cell lysate using CBFB Mouse Monoclonal Antibody (PCR-1E6).



Analysis of Protein Array containing more than 19,000 full-length human proteins using CBFB-Monospecific Mouse Monoclonal Antibody (PCR-1E6). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow cytometric analysis of PFA-fixed HeLa cells. CBFB Mouse Monoclonal Antibody (PCR-1E6) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

Specificity & Comments

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, α and β , which are essential for the regulation of hematopoiesis and osteogenesis. The PEBP2 subunits, PEBP2 α , PEBP2 β and PEBP2 γ , 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 β subunit, which facilitates DNA binding of the α 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 PEBP2 α is the target of chromosomal inversion 16 (p13;q22) with the smooth muscle Myosin heavy chain, producing a chimeric gene, PEBP2 α /CBFB-SMMHC, that is associated with human acute myeloid leukemia.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Developmental Biology, Signal Transduction, Transcription Factors