

Anti-CBFB Antibody (11567)

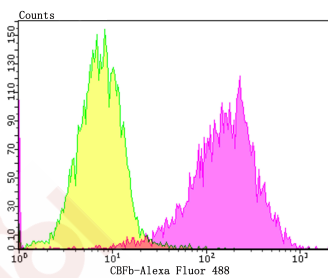
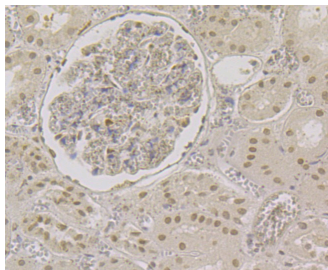
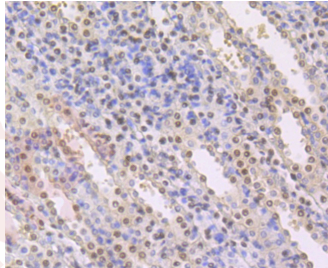
Product Details

Ig Type:	IgG
Reactivity:	Human,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 22 kDa.
Clone:	11567
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-CBFB antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-CBFB antibody. Counter stained with hematoxylin.
3. Flow cytometric analysis of SiHa cells with CBFB antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.



Application:	FCM,IHC,WB
Recommended	IHC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: human CBFb aa 1-200

Antigen Species: human

Uniprot ID: Q13951

Synonyms: core-binding factor, beta subunit; core-binding factor, β subunit; PEBP2B

Research 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, a and b, which are essential for the regulation of hematopoiesis and osteogenesis. The PEBP2a subunits, PEBP2aA, PEBP2aB and PEBP2aC, 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 b subunit, which facilitates DNA binding of the a 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 PEBP2b is the target of chromosomal inversion 16 (p13;q22) with the smooth muscle myosin heavy chain, producing a chimeric gene, PEBP2b/CBFB-SMMHC, that is associated with human acute myeloid leukemia.

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