

Datasheet: VMA00957

Description:	MOUSE ANTI CBFB
Specificity:	CBFB
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD06/4G9
Isotype:	IgG2a
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/500 - 1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - Liquid

Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1-187 of human CBFB
External Database Links	<p>UniProt: Q13951 Related reagents</p> <p>Entrez Gene: 865 CBFB Related reagents</p>
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	Mouse anti CBFB antibody recognizes core-binding factor subunit beta, also known as PEA2-beta. CBFB is a transcription factor. Along with its binding partner, RUNX1, CBFB regulates a range of signaling pathways to maintain cell and tissue homeostasis. RUNX1 has sequence-specific transcription factor activity, and CBFB enhances the activity of RUNX1. Genetic alterations in CBFB and RUNX1 are linked with a range of human disorders and cancers (Malik et al. 2019). The role of CBFB in bone and cartilage development has been well-characterized, with CBFB regulating the proliferation and differentiation of chondrocytes and osteoblast-lineage cells via multiple signaling pathways (Komori 2020). CBFB is a commonly mutated driver of human cancers, including blood cancer and breast cancer (Malik et al. 2019). Furthermore, CBFB has been identified as one of the six most significantly mutated genes in breast cancer (Sustic et al. 2020).
Western Blotting	Mouse anti CBFB detects a band of approximately 21 kDa in RAW264.7 cell lysates
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
Guarantee	12 months from date of despatch
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00957 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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To
find a

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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