

Datasheet: VMA00876

Description:	MOUSE ANTI CREB1
Specificity:	CREB1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	EF03/2E2
Isotype:	IgG1
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	▪			1/1000
Immunofluorescence	▪			

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, Rat 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	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-341 of human CREB1

External Database Links

UniProt:

[P16220](#) [Related reagents](#)

Entrez Gene:

[1385](#) CREB1 [Related reagents](#)

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity **Mouse anti CREB1 antibody** recognizes cyclic AMP-responsive element-binding protein 1.

The protein CREB1 is a transcription factor that regulates transcription of genes involved with DNA repair and metabolism through phosphorylation and dephosphorylation. Targets of activated CREB1 include cyclins, Bcl-2 family members, and Egr-1 ([Yan et al. 2018](#)). The gene encoding CREB1 is a proto-oncogene, and CREB1 overexpression has been reported in a variety of cancers including gastric, colorectal, ovarian, bladder, and breast cancers ([Guo et al. 2018](#)). The cAMP/CREB1 pathway is involved with resistance of cancer cells to certain drug treatments. For example, CREB1 appears to confer tamoxifen resistance to breast cancer ([Zhu et al. 2016](#)). Activation of CREB1 and genes downstream of CREB1 also contribute to epilepsy, and epileptic mice with decreased CREB1 levels show around a 50% reduction in spontaneous seizures ([Wang et al. 2016](#)).

Western Blotting Mouse anti CREB1 antibody detects a band of approximately 40 kDa in HEK293 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/VMA00876>
Antibody (10040)

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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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