

Datasheet: VMA00876

BATCH NUMBER 100004258

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

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	<i>E. coli</i> -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](#)

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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
'M375100:201216'

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