



Catalog Number:	MO18006	Host:	Mouse
Product Type:	Protein G purified IgG ₁	Species Reactivity:	Human; Rat; Mouse; Primate
Immunogen Sequence:	GST-CREB full length fusion protein.	Format:	Liquid in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide.
Applications	Western Blotting-1:1000 Immunofluorescence-1:800 (Frozen) Flow Cytometry-1:100		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. <i>Avoid repeated freeze-thaw cycles.</i>		

Application Notes

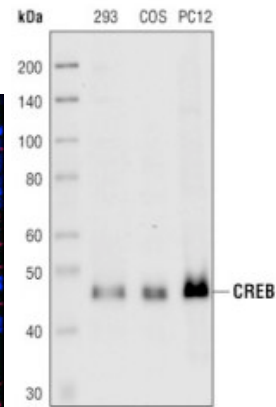
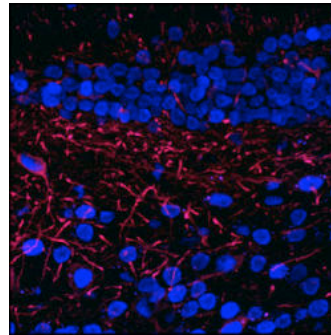
Specificity

CREB Mouse mAb detects endogenous levels of total CREB protein.

Description/Data:

CREB is a bZIP transcription factor that activates target genes through cAMP response elements. CREB is able to mediate signals from numerous physiological stimuli, resulting in regulation of a broad array of cellular responses. While CREB is expressed in numerous tissues, it plays a large regulatory role in the nervous system. CREB is believed to play a key role in promoting neuronal survival, precursor proliferation, neurite outgrowth and neuronal differentiation in certain neuronal populations. CREB promotes outgrowth and differentiation as a mediator of Neurotrophin pathways. Additionally, CREB signaling is involved in learning and memory in several organisms. CREB is able to selectively activate numerous downstream genes through interactions with different dimerization partners. CREB is activated by phosphorylation at Ser133 by various signaling pathways including Erk, Ca²⁺ and stress signaling. Some of the kinases involved in phosphorylating CREB at Ser133 are p90RSK, MSK, CaMKIV and MAPKAPK.

Images: Confocal immunofluorescent analysis of mouse dentate gyrus stained with [Tau](#) (red) and CREB (blue) and western blot analysis of extracts from 293, COS and PC12 cells, using CREB.



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