10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CREB1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AW5058

Product Information

Application	WB
Primary Accession	P16220
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	35136
Isotype	IgG1,κ
Antigen Source	HUMAN

Additional Information

Gene ID	1385
Other Names	Cyclic AMP-responsive element-binding protein 1, CREB-1, cAMP-responsive element-binding protein 1, CREB1
Dilution	WB~~1:1000
Target/Specificity	This CREB1 antibody is generated from a mouse immunized with a recombinant protein from human CREB1.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CREB1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CREB1
Function	Phosphorylation-dependent transcription factor that stimulates transcription upon binding to the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters (By similarity). Transcription activation is enhanced by the TORC coactivators which act independently of Ser-119 phosphorylation (PubMed:14536081). Involved in different cellular processes including the synchronization of circadian

	rhythmicity and the differentiation of adipose cells (By similarity). Regulates the expression of apoptotic and inflammatory response factors in cardiomyocytes in response to ERFE-mediated activation of AKT signaling (By similarity).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00312, ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:12552083}

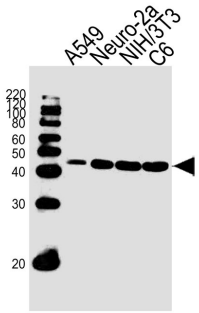
Background

Phosphorylation-dependent transcription factor that stimulates transcription upon binding to the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells.

References

Berkowitz L.A.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:5258-5262(1990).
Yoshimura T.,et al.EMBO J. 9:2537-2542(1990).
Waeber G.,et al.Trans. Assoc. Am. Physicians 103:28-37(1990).
Hoeffler J.P.,et al.Science 242:1430-1433(1988).
Short M.L.,et al.Nucleic Acids Res. 19:4290-4290(1991).

Images



Western blot analysis of lysates from A549,mouse Neuro-2a,NIH/3T3,rat C6 cell line (from left to right), using CREB1 Antibody(Cat. #AW5058). AW5058 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.