

**KD-Validated Anti-CREB1 Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI2098****Specification****KD-Validated Anti-CREB1 Mouse Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P16220</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 35 kDa, observed, 44 kDa
Gene Name	KDa CREB1
Aliases	CREB1; CAMP Responsive Element Binding Protein 1; Cyclic AMP-Responsive Element-Binding Protein 1; CREB-1; Cyclic Adenosine 3',5'-Monophosphate Response Element-Binding Protein CREB; Cyclic Adenosine 3',5'-Monophosphate Response Element Binding Protein; CAMP-Responsive Element-Binding Protein 1; CAMP-Response Element-Binding Protein-1; Active Transcription Factor CREB; Transactivator Protein; CREB
Immunogen	Recombinant protein of human CREB1

**KD-Validated Anti-CREB1 Mouse Monoclonal Antibody - Additional Information**

Gene ID	1385
<b>Other Names</b>	
Cyclic AMP-responsive element-binding protein 1, CREB-1, cAMP-responsive element-binding protein 1, CREB1	

**KD-Validated Anti-CREB1 Mouse Monoclonal Antibody - 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: <http://www.uniprot.org/citations/14536081> target="\_blank">14536081</a>). 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**

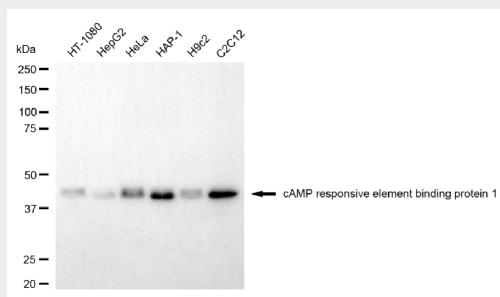
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00312, ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:12552083}

## KD-Validated Anti-CREB1 Mouse Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

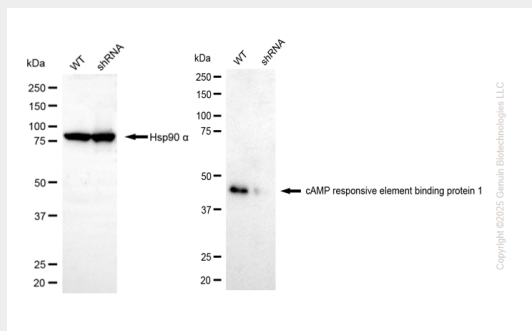
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## KD-Validated Anti-CREB1 Mouse Monoclonal Antibody - Images



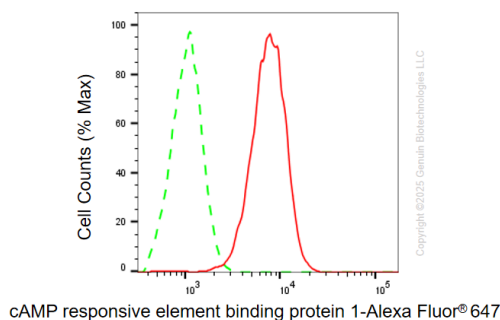
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Western blotting analysis using anti-cAMP responsive element binding protein 1 antibody (Cat#AGI2098). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-cAMP responsive element binding protein 1 antibody (Cat#AGI2098, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.

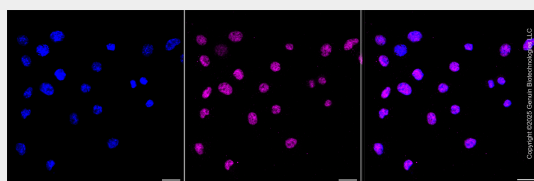


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Western blotting analysis using anti-cAMP responsive element binding protein 1 responsive element binding protein 1 antibody (Cat#AGI2098). CAMP responsive element binding protein 1 responsive element binding protein 1 expression in wild-type (WT) and CREB1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-cAMP responsive element binding protein 1 responsive element binding protein 1 antibody (Cat#AGI2098, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of cAMP responsive element binding protein 1 expression in C2C12 cells using anti-cAMP responsive element binding protein 1 antibody (Cat#AGI2098, 1:1,000). Green, isotype control; red, cAMP responsive element binding protein 1.



Immunocytochemical staining of C2C12 cells with anti-cAMP responsive element binding protein 1 antibody (Cat#AGI2098, 1:1,000). Nuclei were stained blue with DAPI; CAMP responsive element binding protein 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20  $\mu$ m.