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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	P16220
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 35 kDa, observed, 44 kDa KDa**
Gene Name	**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**

Other Names
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: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

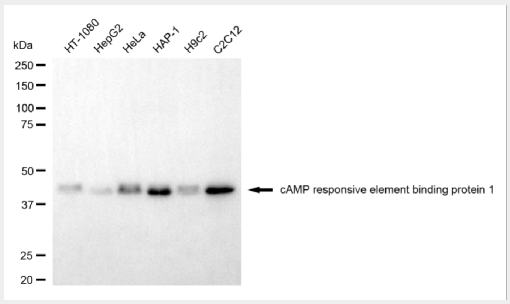
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00312, ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:12552083}

KD-Validated Anti-CREB1 Mouse Monoclonal Antibody - Protocols

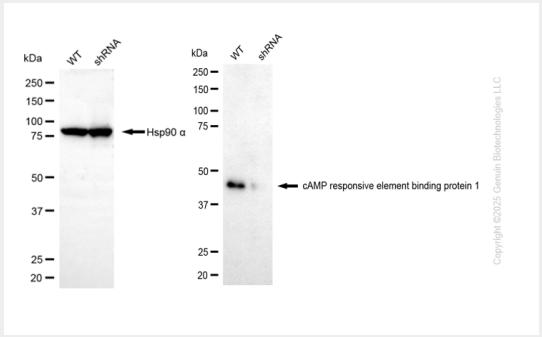
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-CREB1 Mouse Monoclonal Antibody - Images



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.



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.

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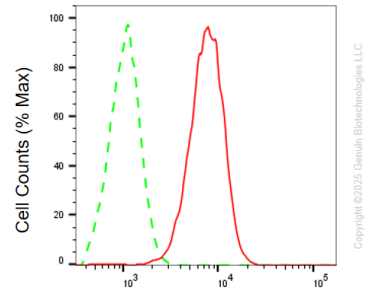
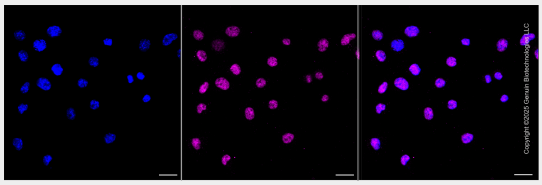


Flow cytometric analysis of cAMP responsive element binding protein 1 expression in C2C12 cells using anti-cAMP responsive element binding protein 1 antibody (Cat#AGI2098, 1:1,000). Green, isotype control; red, cAMP responsive element binding protein 1.



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 µm.