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

KD-Validated Anti-CREB1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1433

Specification

KD-Validated Anti-CREB1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P16220
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 35 kDa; observed, 43-46 kDa KDa**
Gene Name	**CREB1**
Aliases	**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	**A synthesized peptide derived from human CREB**

KD-Validated Anti-CREB1 Rabbit 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 Rabbit 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).

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

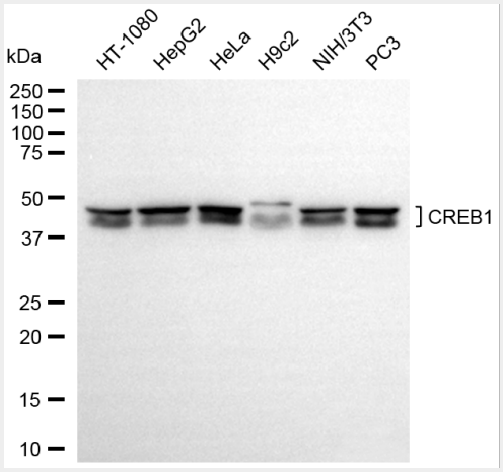
Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00312, ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:12552083}

KD-Validated Anti-CREB1 Rabbit Monoclonal Antibody - Protocols

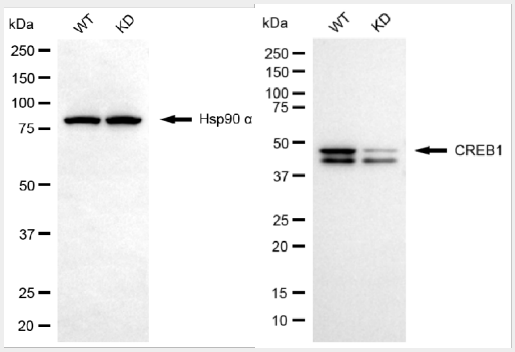
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-CREB1 Rabbit Monoclonal Antibody - Images

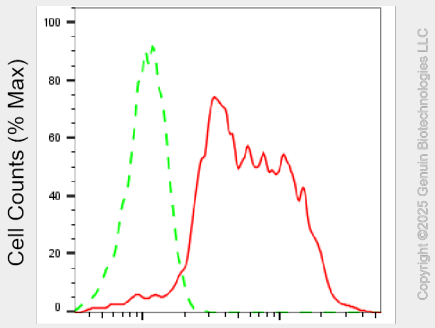


Western blotting analysis using anti-CREB1 antibody (Cat#AGI1433). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CREB1 antibody (Cat#AGI1433, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



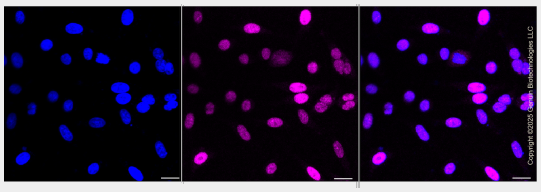
Western blotting analysis using anti-CREB1 antibody (Cat#AGI1433). CREB1 expression in wild type (WT) and CREB1 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CREB1 antibody (Cat#AGI1433, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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



CREB1-Alexa Fluor® 647

Flow cytometric analysis of CREB1 expression in HepG2 cells using anti-CREB1 antibody (Cat#AGI1433, 1:2,000). Green, isotype control; red, CREB1.



Immunocytochemical staining of HepG2 cells with anti-CREB1 antibody (Cat#AGI1433, 1:1,000). Nuclei were stained blue with DAPI; CREB1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.