

Product Name: KD-Validated CREB1 Mouse Monoclonal Antibody**Catalog #: KVA00500**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:100-1:1,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 35.1kDa

Antigen Information

Gene Name	CREB1 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
Alternative Names	
Gene ID	1385.0
SwissProt ID	P16220
Immunogen	Recombinant protein of human CREB1

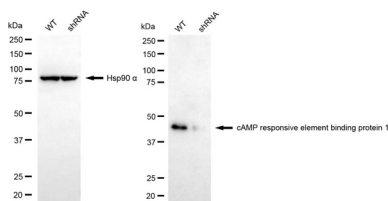
Background

This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]

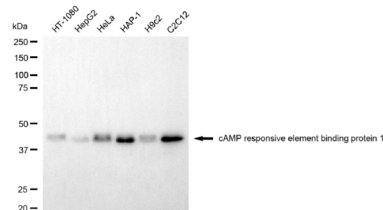
Research Area

Epigenetics and Nuclear Signaling, Immunology, Neuroscience

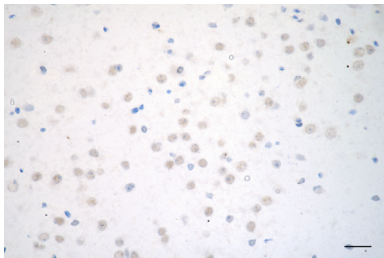
Image Data



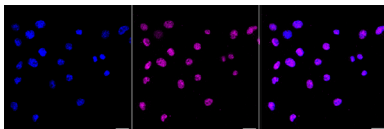
Western blotting analysis using cAMP responsive element binding protein 1 responsive element binding protein 1 antibody (KVA00500). CAMP responsive element binding protein 1 responsive element binding protein 1 expression in wild-type (WT) and CREB1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with cAMP responsive element binding protein 1 responsive element binding protein 1 antibody (KVA00500, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



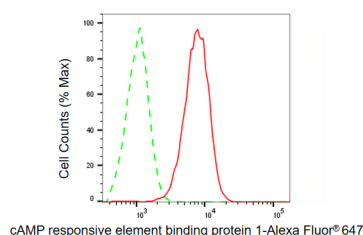
Western blotting analysis using cAMP responsive element binding protein 1 antibody (KVA00500). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cAMP responsive element binding protein 1 antibody (KVA00500, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded mouse brain using cAMP responsive element binding protein 1 antibody (KVA00500, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of C2C12 cells with cAMP responsive element binding protein 1 antibody (KVA00500, 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.



Flow cytometric analysis of cAMP responsive element binding protein 1 expression in C2C12 cells using cAMP responsive element binding protein 1 antibody (KVA00500, 1:1,000). Green, isotype control; red, cAMP responsive element binding protein 1.