

Product Name: KD-Validated CREB1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01252**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 35.1kDa

Antigen Information

Gene Name	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
Alternative Names	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
Gene ID	1385.0
SwissProt ID	P16220
Immunogen	A synthesized peptide derived from human CREB

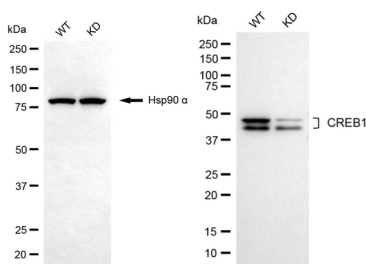
Background

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]

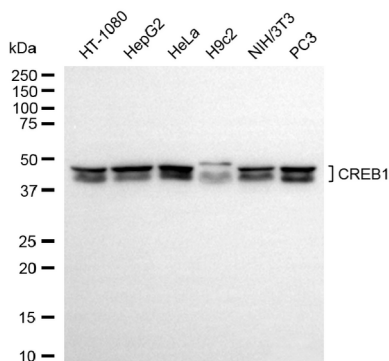
Research Area

Epigenetics and Nuclear Signaling, Immunology, Neuroscience

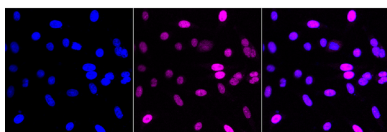
Image Data



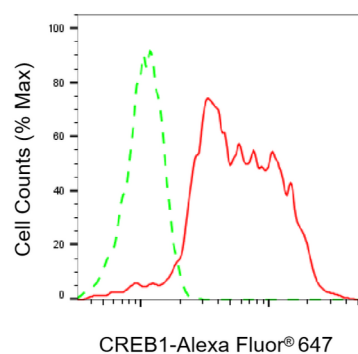
Western blotting analysis using CREB1 antibody (KVA01252). CREB1 expression in wild type (WT) and CREB1 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CREB1 antibody (KVA01252, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using CREB1 antibody (KVA01252). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CREB1 antibody (KVA01252, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with CREB1 antibody (KVA01252, 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.



Flow cytometric analysis of CREB1 expression in HepG2 cells using CREB1 antibody (KVA01252, 1:2,000). Green, isotype control; red, CREB1.