
Product Name: KD-Validated CRTC2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00385**

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 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 73.3kDa

Antigen Information

Gene Name	CRTC2
Alternative Names	CRTC2; CREB Regulated Transcription Coactivator 2; TORC2; CREB-Regulated Transcription Coactivator 2; TORC-2; Transducer Of Regulated CAMP Response Element-Binding Protein (CREB) 2; Transducer Of Regulated CAMP Response Element-Binding Protein 2; Transducer Of CREB Protein 2
Gene ID	200186.0
SwissProt ID	Q53ET0
Immunogen	A synthesized peptide derived from human TORC2

Background

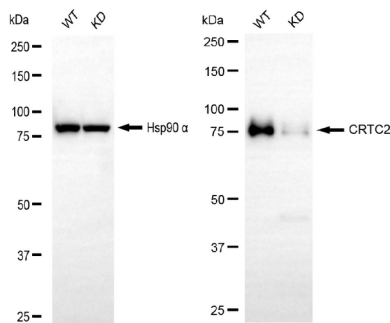
This gene encodes a member of the transducers of regulated cAMP response element-binding protein activity family of

transcription coactivators. These proteins promote the transcription of genes targeted by the cAMP response element-binding protein, and therefore play an important role in many cellular processes. Under basal conditions the encoded protein is phosphorylated by AMP-activated protein kinase or the salt-inducible kinases and is sequestered in the cytoplasm. Upon activation by elevated cAMP or calcium, the encoded protein translocates to the nucleus and increases target gene expression. Single nucleotide polymorphisms in this gene may increase the risk of type 2 diabetes. A pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Dec 2010]

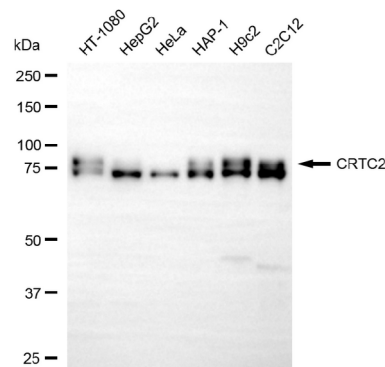
Research Area

Signal Transduction, Neuroscience, Metabolism

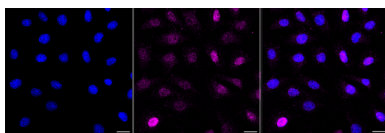
Image Data



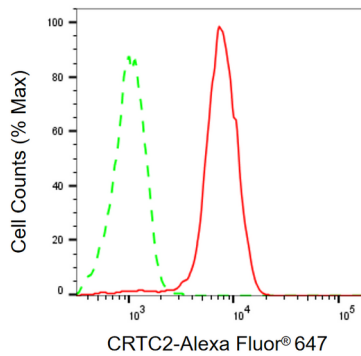
Western blotting analysis using CRTC2 antibody (KVA00385). CRTC2 expression in wild-type (WT) and CRTC2 knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CRTC2 antibody (KVA00385, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using CRTC2 antibody (KVA00385). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CRTC2 antibody (KVA00385, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with CRTC2 antibody (KVA00385, 1:1,000). Nuclei were stained blue with DAPI; CRTC2 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 CRTC2 expression in C2C12 cells using CRTC2 antibody (KVA00385, 1:2,000). Green, isotype control; red, CRTC2.