

Product Name: KD-Validated CRTC3 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01808**

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: 67.0kDa

Antigen Information

Gene Name	CRTC3
Alternative Names	CRTC3; CREB Regulated Transcription Coactivator 3; CREB-Regulated Transcription Coactivator 3; FLJ21868; TORC-3; TORC3; Transducer Of Regulated CAMP Response Element-Binding Protein (CREB) 3; Transducer Of Regulated CAMP Response Element-Binding Protein 3; Transducer Of Regulated CREB Protein 3; Transducer Of CREB Protein 3
Gene ID	64784.0
SwissProt ID	Q6UUV7
Immunogen	A synthesized peptide derived from CRTC3

Background

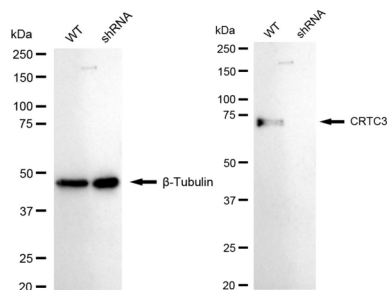
This gene is a member of the CREB regulated transcription coactivator gene family. This family regulates CREB-dependent gene

transcription in a phosphorylation-independent manner and may be selective for cAMP-responsive genes. The protein encoded by this gene may induce mitochondrial biogenesis and attenuate catecholamine signaling in adipose tissue. A translocation event between this gene and Notch coactivator mastermind-like gene 2, which results in a fusion protein, has been reported in mucoepidermoid carcinomas. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jul 2012]

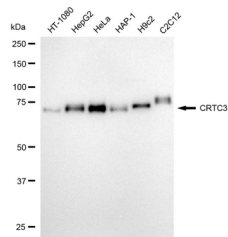
Research Area

Microbiology, Epigenetics and Nuclear Signaling

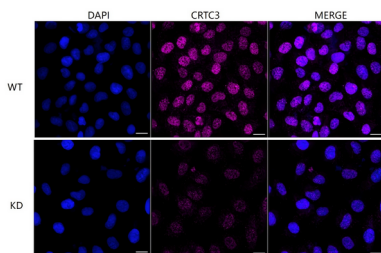
Image Data



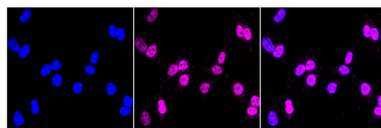
Western blotting analysis using CRT3 antibody (KVA01808). CRT3 expression in wild type (WT) and CRT3 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with CRT3 antibody (KVA01808, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



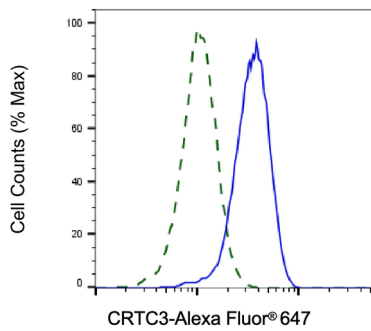
Western blotting analysis using CRT3 antibody (KVA01808). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CRT3 antibody (KVA01808, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



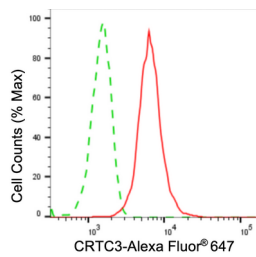
Immunocytochemical staining of HeLa cells using CRT3 antibody (KVA01808, 1:1,000), Top panel: wild-type (WT); Bottom panel: CRT3 shRNA knockdown (KD). Nuclei were stained blue with DAPI; CRT3 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HeLa cells with CRT3 antibody (KVA01808, 1:1,000). Nuclei were stained blue with DAPI; CRT3 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.



Validation of CRT3 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT1080 cells were stained with CRT3 antibody (KVA01808, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of CRT3 expression in HeLa cells using CRT3 antibody (KVA01808, 1:2,000). Green, isotype control; red, CRT3.