

CRTC2 / TORC2 (aa 83-96) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3460a**Specification**

CRTC2 / TORC2 (aa 83-96) Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	Q53ET0
Other Accession	NP_859066.1 , 200186 , 74343 (mouse) , 310615 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	73302

CRTC2 / TORC2 (aa 83-96) Antibody (internal region) - Additional Information**Gene ID** 200186**Other Names**

CREB-regulated transcription coactivator 2, Transducer of regulated cAMP response element-binding protein 2, TORC-2, Transducer of CREB protein 2, CRTC2, TORC2

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CRTC2 / TORC2 (aa 83-96) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

CRTC2 / TORC2 (aa 83-96) Antibody (internal region) - Protein Information**Name** CRTC2**Synonyms** TORC2

Function

Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. Enhances the interaction of CREB1 with TAF4. Regulates gluconeogenesis as a component of the LKB1/AMPK/TORC2 signaling pathway. Regulates the expression of specific genes such as the steroidogenic gene, StAR. Potent coactivator of PPARGC1A and inducer of mitochondrial biogenesis in muscle cells. Also coactivator for TAX activation of the human T-cell leukemia virus type 1 (HTLV-1) long terminal repeats (LTR).

Cellular Location

Cytoplasm. Nucleus. Note=Translocated from the nucleus to the cytoplasm on interaction of the phosphorylated form with 14-3-3 protein (PubMed:15454081). In response to cAMP levels and glucagon, relocated to the nucleus (PubMed:15454081)

Tissue Location

Most abundantly expressed in the thymus. Present in both B and T-lymphocytes. Highly expressed in HEK293T cells and in insulinomas. High levels also in spleen, ovary, muscle and lung, with highest levels in muscle. Lower levels found in brain, colon, heart, kidney, prostate, small intestine and stomach. Weak expression in liver and pancreas.

CRTC2 / TORC2 (aa 83-96) Antibody (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CRTC2 / TORC2 (aa 83-96) Antibody (internal region) - Images

AF3460a (0.3 µg/ml) staining of Jurkat lysate (35 µg protein in RIPA buffer). Primary incubation

was 1 hour. Detected by chemiluminescence.

CRTC2 / TORC2 (aa 83-96) Antibody (internal region) - References

Hepatic glucose sensing via the CREB coactivator CRTC2. Dentin R, Hedrick S, Xie J, Yates J, Montminy M, Science 2008 Mar 319 (5868): 1402-5. PMID: 18323454