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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 Cytomety
- 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

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was 1 hour. Detected by chemiluminescence.

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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