

**CRTC2 Antibody (C-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3459a****Specification**

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**CRTC2 Antibody (C-Term) - Product Information**

Application	WB
Primary Accession	<a href="#">Q53ET0</a>
Other Accession	<a href="#">NP_083157.1</a> , <a href="#">200186</a> , <a href="#">74343 (mouse)</a> , <a href="#">310615 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	73302

**CRTC2 Antibody (C-Term) - 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

**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 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CRTC2 Antibody (C-Term) - 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 Antibody (C-Term) - 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 Antibody (C-Term) - Images**



AF3459a (1 µg/ml) staining of Jurkat lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### **CRTC2 Antibody (C-Term) - 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