

**TORC2 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10741****Specification**

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**TORC2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q3LRZ1</a>
Other Accession	<a href="#">NP_001029067.1</a>
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	73146

**TORC2 Antibody - Additional Information****Gene ID** 310615

Positive Control	Rat kidney tissue lysate
Application & Usage	The antibody can be used for Western blotting (0.5-4 µg/ml).

**Other Names**

CREB-regulated transcription coactivator 2; transducer of regulated cAMP response element-binding protein 2; TORC-2; transducer of CREB protein 2

**Target/Specificity**

TORC2

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-TORC2 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

TORC2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **TORC2 Antibody - 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 (By similarity).

### **Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q53ET0}. Nucleus {ECO:0000250|UniProtKB:Q53ET0}. Note=Translocated from the nucleus to the cytoplasm on interaction of the phosphorylated form with 14-3-3 protein. In response to cAMP levels and glucagon, relocated to the nucleus. {ECO:0000250|UniProtKB:Q53ET0}

## **TORC2 Antibody - 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](#)

## **TORC2 Antibody - Images**

## **TORC2 Antibody - Background**

Torc2 (transducer of regulated CREB activity 2) is a key regulator of fasting glucose metabolism. Sequestered in the cytoplasm under feeding conditions, TORC2 is dephosphorylated and transported to the nucleus where it enhances CREB-dependent transcription in response to fasting stimuli.