Anti-TORC2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013096

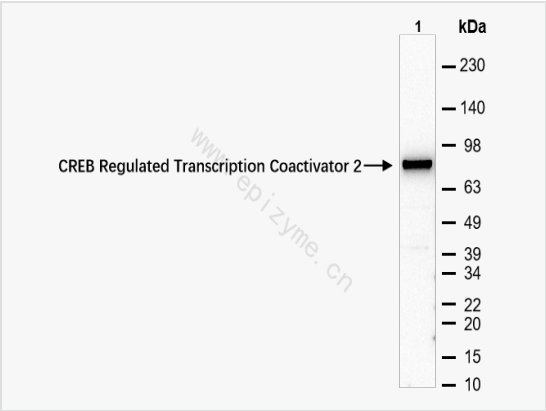
Product Information

Application	IF (Cell)/ICC, ELISA, WB, IHC-P/IF (Tissue-P)
Reactivity	Rat, Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	11M80M25
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human TORC2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-TORC2 antibody [11M80M25] is for research use only and not for use in diagnostic or therapeutic procedures.

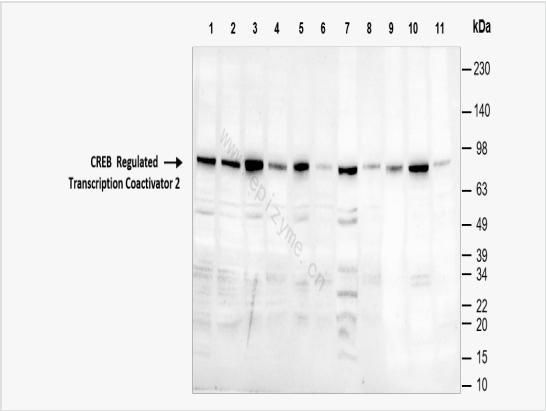
Protein Information

Synonyms	CREB regulated transcription coactivator 2, CREB-regulated transcription coactivator 2, CRTC2, CRTC2_HUMAN, RP11-422P24.6, TORC-2, torc2, Transducer of CREB protein 2, Transducer of regulated cAMP response element-binding protein, Transducer of regulated cAMP response element-binding protein (CREB) 2, Transducer of regulated cAMP response element-binding protein 2, Transducer of regulated CREB protein 2, CREB Regulated Transcription Coactivator 2.
Calculated MW	Calculated MW: 73 kDa; Observed MW: 80 kDa
Uniprot ID	Q53ET0
Gene ID	200186
Background	This gene encodes a member of the transducers of regulated cAMP response element-binding protein activity family of transcription coactivators. These proteins promote the transcription of genes targeted by the cAMP response element-binding protein, and therefore play an important role in many cellular processes. Under basal conditions the encoded protein is phosphorylated by AMP-activated protein kinase or the salt-inducible kinases and is sequestered in the cytoplasm. Upon activation by elevated cAMP or calcium, the encoded protein translocates to the nucleus and increases target gene expression. Single nucleotide polymorphisms in this gene may increase the risk of type 2 diabetes. A pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Dec 2010]
Cellular Location	Cytoplasm. Nucleus. 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.
Tissue Location	Most abundantly expressed in the thymus. Present in both B and T lymphocytes. Highly expressed in HEK293T cells and in

Validation Images



Western Blot - Anti-TORC2 Rabbit mAb [11M80M25]
All lanes: R013096 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 73 kDa
Observed band size: 80 kDa
Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-TORC2 Rabbit mAb [11M80M25]
All lanes: R013096 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 7: SW620(Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 8: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 9: Mouse heart whole tissue lysates
Lane 10: Rat heart whole tissue lysates
Lane 11: Rat muscle whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 73 kDa
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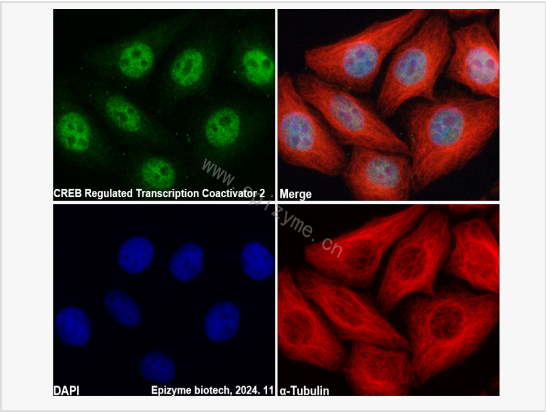
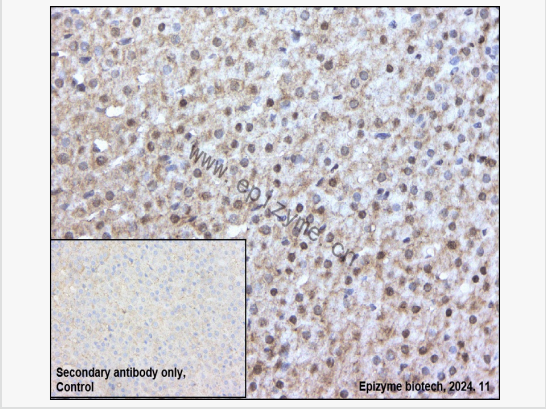
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-TORC2 Rabbit mAb [11M80M25]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013096 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-TORC2 Rabbit mAb [11M80M25]
Sample: Paraformaldehyde-fixed, paraffin embedded rat adrenal gland tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013096 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.