Anti-TORC1 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M010569

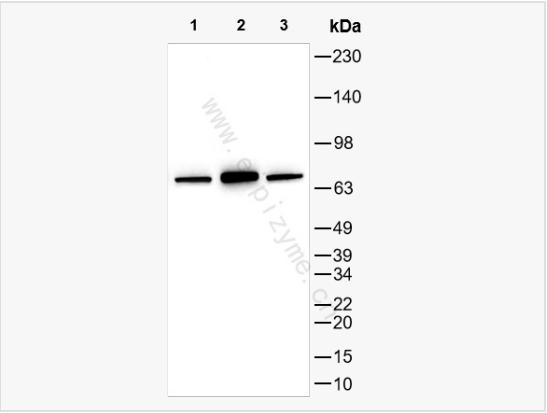
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	58L74L97
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human TORC1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% 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-TORC1 Mouse mAb [58L74L97] is for research use only and not for use in diagnostic or therapeutic procedures.

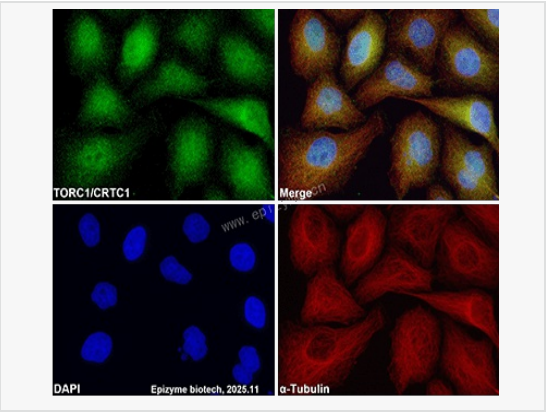
Protein Information

Synonyms	MAML2; MECT1; Mam-2; TORC-1; TORC1; WAMTP1; mKIAA0616; CRTC1_HUMAN; CRTC1; Mucoepidermoid carcinoma translocated protein 1; Transducer of regulated cAMP response element-binding protein 1 (TORC-1 | Transducer of CREB protein 1); KIAA0616; CRTC1_MOUSE; Mucoepidermoid carcinoma translocated protein 1 homolog; CRTC1_RAT.
Calculated MW	Calculated MW: 67 kDa; Observed MW: 78 kDa
Uniprot ID	Q6UUV9
Gene ID	23373
Background	Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites
Cellular Location	Cytoplasm Nucleus Cytoplasmic when phosphorylated by SIK or AMPK and when sequestered by 14-3-3 proteins (PubMed:16817901). Translocated to the nucleus on Ser-151 dephosphorylation, instigated by a number of factors including calcium ion and cAMP levels (PubMed:15589160). Light stimulation triggers a nuclear accumulation in the suprachiasmatic nucleus (SCN) of the brain (By similarity).
Tissue Location	Highly expressed in adult and fetal brain. Located to specific regions such as the prefrontal cortex and cerebellum. Very low expression in other tissues such as heart, spleen, lung, skeletal muscle, salivary gland, ovary and kidney.

Validation Images



Western Blot - Anti-TORC1 Mouse mAb [58L74L97]
All lanes: M010569 at 1:1,000 dilution
Lane 1: Mouse brain whole tissue lysates
Lane 2: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 3: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Predicted band size: 67 kDa
Observed band size: 78 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-TORC1 Mouse mAb [58L74L97]
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 antibody: M010569 at 1:100 dilution and and α-tubulin Rabbit Monoclonal Antibody (Cat. No. LF213) at 1:100 dilution
Secondary antibody: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green) and Goat anti-Rabbit (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).