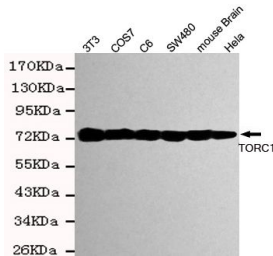




TORC1

Mouse monoclonal Antibody

#53517

Catalog Number: 53517**Amount:** 100µg/100µl**Swiss-Prot No. :** Q6UUV9**Gene name:** crtc1**Gene id:** 23373**Clone Number:** 4E7-C1-F9-E6**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human TORC1 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of TORC1 and does not cross-react with related proteins**Reactivity:** Human, Mouse, Rat, Monkey**Applications:** Predicted MW: 78kd WB: 1:2000 ICC:1:200

Western blot detection of TORC1 in HeLa, mouse brain, SW480, COS7, C6 and 3T3 cell lysates using TORC1 mouse mAb (1:2000 diluted). Predicted band size: 78KDa. Observed band size: 78KDa.

Background:

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 the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. Potent coactivator of PGC1alpha 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). In the hippocampus, involved in late-phase long-term potentiation (L-LTP) maintenance at the Schaffer collateral-CA1 synapses. May be required for dendritic growth of developing cortical neurons.