

Anti-CRTC1 Antibody



Model	STJ117607
Host	Rabbit
Reactivity	Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-200 of human CRTC1 (NP_056136.2).
Gene ID	23373
Gene Symbol	CRTC1
Dilution range	WB 1:200 - 1:2000
Tissue Specificity	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
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	CREB-regulated transcription coactivator 1 Mucoepidermoid carcinoma translocated protein 1 Transducer of regulated cAMP response element-binding protein 1 TORC-1 Transducer of CREB protein 1
Molecular Weight	67.3 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:16062OMIM:607536Reactome:R-HSA-1368108
Alternative Names	CREB-regulated transcription coactivator 1 Mucoepidermoid carcinoma translocated protein 1 Transducer of regulated cAMP response element-binding protein 1 TORC-1 Transducer of CREB protein 1
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 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 , In concert with SIK1, regulates the light-induced entrainment of the circadian clock, In response to light stimulus, coactivates the CREB-mediated transcription of PER1 which plays an important role in the photic entrainment of the circadian clock,
Cellular Localization	Cytoplasm,
Post-translational Modifications	Phosphorylation/dephosphorylation states of Ser-151 are required for regulating transduction of CREB activity, TORCs are inactive when phosphorylated, and active when dephosphorylated at this site, This primary site of phosphorylation is mediated by SIKs (SIK1 and SIK2), is regulated by cAMP and calcium levels and is dependent on the phosphorylation of SIKs by LKB1 ,