For Research Use Only

TORC1/CRTC1 Polyclonal antibody

Catalog Number:10441-1-AP

Featured Product

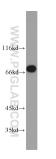
13 Publications

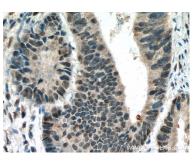


Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 10441-1-AP BC028050 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Concentration: 600 µg/ml 23373 WB: 1:500-1:1000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: Source: protein lysate Rabbit Q6UUV9 IHC: 1:50-1:500 Isotype: Full Name: lgG CREB regulated transcription coactivator 1 Immunogen Catalog Number: AG0693 Calculated MW: 75 kDa **Observed MW:** 68 kDa **Applications Tested Applications:** Positive Controls: WB, IP, IHC, ELISA WB : mouse kidney tissue, A431 cells, Jurkat cells, L02 **Cited Applications:** cells, mouse brain tissue WB, IHC, IF, IP IP: mouse kidney tissue, Species Specificity: IHC : human colon cancer tissue, mouse brain tissue human, mouse **Cited Species:** human, mouse, rat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Background Information** CRTC1, also named as MECT1,TORC1, and WAMTP1, belongs to the TORC family. It is a transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. CRTC1 acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. It enhances the interaction of CREB1 with TAF4. CRTC1 regulates the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. It is a potent coactivator of PGC1alpha and inducer of mitochondrial biogenesis in muscle cells. CRTC1 is also a coactivator for TAX activation of the human T-cell leukemia virus type 1 (HTLV-1) long terminal repeats (LTR). In the hippocampus, CRTC1 involved in late-phase long-term potentiation (L-LTP) maintenance at the Schaffer collateral-CA1 synapses. It may be required for dendritic growth of developing cortical neurons. This is a rabbit polyclonal antibody raised against residues near N terminus of human CRTC1. CRTC1 has some isoforms produced by alternative splicing with MW of 67 kDa, 68 kDa and 62 kDa. Sometimes it appears as a 75-80 kDa band probably due to phosphorylation (PMID: 17183642; 22770221) Notable Publications Author Pubmed ID Journal Application Toh Hean Ch'ng 26388727 Front Mol Neurosci IF Yiwen Lu 34616019 Nat Cell Biol WB WB Lei Wu 29116185 Sci Rep Storage Storage Store at -20°C. Stable for one year after shipment. Storage Buffer PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

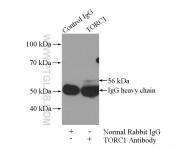
Selected Validation Data





mouse kidney tissue were subjected to SDS PAGE followed by western blot with 10441-1-AP (TORC1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 10441-1-AP (TORC 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-TORC1/CRTC1 (IP:10441-1-AP, 4ug; Detection:10441-1-AP 1:800) with mouse kidney tissue lysate 4000ug.