

TORC1 Polyclonal Antibody

Catalog number: 10441-1-AP

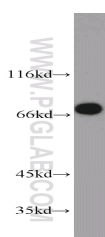
Size: 30 µg/150 µl

Source: Rabbit

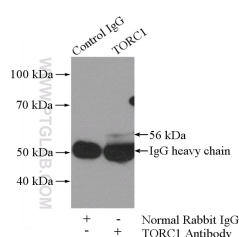
Isotype: IgG

Synonyms:

CRTC1; CRTC1, FLJ14027,
KIAA0616, MECT1, TORC 1,
TORC1, Transducer of CREB
protein 1, WAMTP1



mouse kidney tissue were subjected to SDS PAGE followed by western blot with 10441-1-AP(TORC1 antibody) at dilution of 1:800



IP Result of anti-TORC1 (IP:10441-1-AP, 4µg; Detection:10441-1-AP 1:800) with mouse kidney tissue lysate 4000µg.

Background

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.

Applications

Tested applications:	ELISA, WB, IP
Cited applications:	IF
Species specificity:	Human, Mouse; other species not tested.
Cited species:	Rat
Calculated TORC1 MW:	75 kDa
Observed TORC1 MW:	75 kDa
Positive WB detected in	Mouse kidney tissue, A431 cells, Jurkat cells, L02 cells, mouse brain tissue
Positive IP detected in	Mouse kidney tissue
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0693
GenBank accession number:	BC028050
Gene ID (NCBI):	23373
Full name:	CREB regulated transcription coactivator 1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.