For Research Use Only

TORC1/CRTC1 Polyclonal antibody Catalog Number: 10441-1-AP Featured Product 12 Publications

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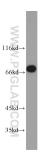
Basic Information	Catalog Number: GenBank Access 10441-1-AP BC028050		Number:	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI): 23373		Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500	
	150ul, Concentration: 600 ug/ml by				
	Nanodrop and 333 ug/ml by Bradford method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG0693				
					Calculated MW: 75 kDa
		Observed MW:			
		68 kDa			
		Applications	and the second se		Positive Cor
WB, IP, IHC, ELISA Cited Applications:			WB : mouse kidney tissue, A431 cells, Jurkat cells, LC cells, mouse brain tissue		
WB, IHC, IF, IP			IP : mouse ki	: mouse kidney tissue,	
Species Specificity: IHC : hu human, mouse IHC : hu			IHC : human	ıman colon cancer tissue, mouse brain tissue	
Cited Species: human, mouse, rat					
Note-IHC: suggested antigen ı TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen				
Background Information	CRTC 1, also named as MECT 1, TORC 1, and WAMTP 1, 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. CRTC 1 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. CRTC 1 regulates the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. It is a potent coactivator of PGC 1alpha and inducer of mitochondrial biogenesis in muscle cells. CRTC 1 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, CRTC 1 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. CRTC 1 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 Put	omed ID Jou	rnal	Application	
	Toh Hean Ch'ng 263	388727 Fro	nt Mol Neurosci	IF	
	Yiwen Lu 346	516019 Nat	Cell Biol	WB	
	Lei Wu 291	116185 Sci	Rep	WB	
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage				
*** 20ul sizes contain 0.1% BSA					
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com			This was denoted a	exclusively available under Proteintec	

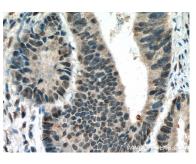
in USA), or 1(312) 455-8498 (outside USA)

W: ptglab.com

other manufacturer.

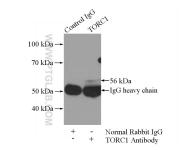
Selected Validation Data





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.