

For Research Use Only

TORC2 Polyclonal antibody

Catalog Number:12497-1-AP

Featured Product

23 Publications



Basic Information

Catalog Number: 12497-1-AP	GenBank Accession Number: BC053562	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 ug/ml by Nanodrop;	GeneID (NCBI): 200186	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q53ETO	
Isotype: IgG	Full Name: CREB regulated transcription coactivator 2	
Immunogen Catalog Number: AG3167	Calculated MW: 693 aa, 73 kDa	
	Observed MW: 73 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse kidney tissue, mouse liver tissue, HEK-293 cells, mouse kidney, rat kidney

IHC : human skin cancer tissue, human gliomas tissue, rat kidney tissue, human urothelial carcinoma tissue, mouse lung tissue, mouse kidney tissue

IF/ICC : HepG2 cells, HeLa cells

Background Information

CRTC2, also named as TORC2, 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. It acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. CRTC2 enhances the interaction of CREB1 with TAF4. It regulates gluconeogenesis as a component of the LKB1/AMPK/TORC2 signaling pathway. CRTC2 regulates the expression of specific genes such as the steroidogenic gene, StAR. TORC2 was recently shown to be an important regulator of gluconeogenesis in the livers of mammals. It is one of the other key regulators of CRE-dependent MIE gene expression in NT2 cells. This regulation is linked to VIP-induced TORC2 dephosphorylation and translocation to the nucleus. (PMID: 19369332, 20504934).

Notable Publications

Author	Pubmed ID	Journal	Application
Chang Wang	33013689	Front Endocrinol (Lausanne)	WB,IF
Hideaki Kanki	33127851	J Neurosci	WB,IF
Qi Ling	31654553	Am J Transplant	IHC

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

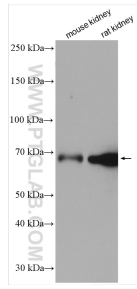
For technical support and original validation data for this product please contact:

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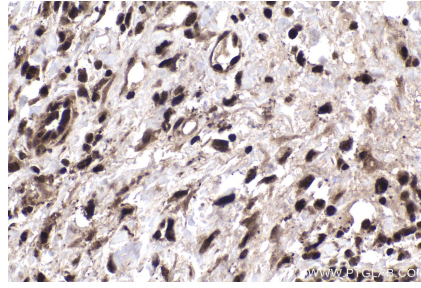
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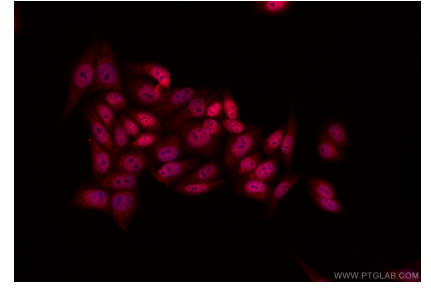
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12497-1-AP (CRTC2,TORC2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 12497-1-AP (CRTC2,TORC2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CRTC2,TORC2 antibody (12497-1-AP) at dilution of 1:200 and CoraLite@594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).