For Research Use Only

Phospho-mTOR (Ser2448) Recombinant antibody, PBS Only proteinte Antibodies | ELISA kits | Proteins Uni-rAb www.ptglab.com

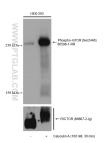
Catalog Number:80596-1-PBS

Basic Information	Catalog Number: 80596-1-PBS	GenBank Accession Number: BC117166	Purification Method: Protein A purification
	Size: 100ug, Concentration: 1mg/ml by Nanodrop; Source: Rabbit Isotype: IgG	Genel D (NCBI): 2475 Full Name: FK506 binding protein 12-rapamycin associated protein 1	CloneNo.: 3L18
		Observed MW: 250-289 kDa	
		Applications	Tested Applications: WB, IF/ICC, FC (Intra), Indirect ELISA
Species Specificity: human, mouse, rat			
Background Information	MTOR, also named as FRAP1, FRAP, FRAP2 and RAPT1, belongs to the PI3/PI4-kinase family. MTOR is a Ser/Thr protein kinase that functions as an ATP and amino acid sensor to balance nutrient availability and cell growth. MTOR is kinase subunit of both mTORC1 and mTORC2, which regulate cell growth and survival in response to nutrient and hormonal signals. mTORC1 is activated in response to growth factors or amino-acids. mTORC2 is also activated by growth factors, but seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTOR is phosphorylated at Ser2448 via the PI3 kinase/Akt signaling pathway and autophosphorylated at Ser2481. mTOR plays a key role in cell growth and homeostasis and may be abnormally regulated in tumors.		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

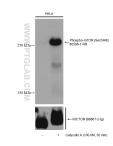
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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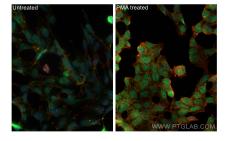
Selected Validation Data



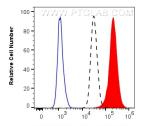
Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80596-1-RR (Phospho-mTOR (Ser2448) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with RICTOR antibody (66867-2-1g) subsequently. This data was developed using the same antibody clone with 80596-1-PBS in a different storage buffer formulation.



Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 80596-1-RR (Phospho-mTOR (Ser2448) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with RICTOR antibody (66867-2-lg) subsequently. This data was developed using the same antibody clone with 80596-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed PMA treated HEK-293 cells using Phospho-mTOR (Ser2448) antibody (80596-1-RR, Clone: 3L18) at dilution of 1:1000 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594phalloidin (red). This data was developed using the same antibody clone with 80596-1-PBS in a different storage buffer formulation.



80596-1-RR Phospho-mTOR (Ser2448)

1X10^6 HEK-293 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.13 ug PhosphomTOR (Ser2448) Recombinant antibody (80596-1-RR, Clone:31.18) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed



Calyculin A treated HSC-T6 cells were subjected to SDS PAGE followed by western blot with 80596-1-RR (Phospho-mTOR (Ser2448) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80596-1-PBS in a different storage buffer formulation.