

For Research Use Only

CoraLite®594-conjugated Phospho-mTOR (Ser2448) Recombinant antibody



Catalog Number:CL594-80596

Basic Information

Catalog Number: CL594-80596	GenBank Accession Number: BC117166	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 2475	CloneNo.: 3L18
Source: Rabbit	Full Name: FK506 binding protein 12-rapamycin associated protein 1	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG	Calculated MW: 289 kDa	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
	Observed MW: 250-289 kDa	

Applications

Tested Applications:
FC (Intra), IF
Species Specificity:
Human, Rat

Positive Controls:
IF : PMA treated HEK-293 cells,

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

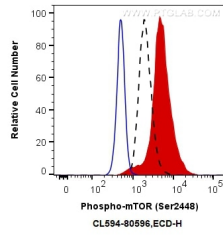
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

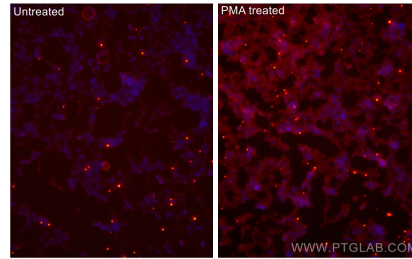
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



1X10⁶ HeLa cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.13 ug CoraLite®594 Anti-Human Phospho-mTOR (Ser2448) (CL594-80596, Clone:3L18) (red), or 0.13 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 80% MeOH.



Immunofluorescent analysis of (-20°C Ethanol) fixed PMA treated HEK-293 cells using CoraLite®594 Phospho-mTOR (Ser2448) antibody (CL594-80596, Clone: 3L18) at dilution of 1:200.