For Research Use Only

CoraLite® Plus 647-conjugated Phospho-mTOR (Ser2448) Monoclonal antibody

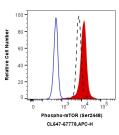


Catalog Number:CL647-67778

Basic Information	Catalog Number: CL647-67778	GenBank Accession Number: BC117166	Purification Method: Protein A purification	
	Concentration: 1000 µg/ml	GeneID (NCBI): 2475	CloneNo.: 2A12G3	
	Source: Mouse Isotype: IgG2b	Full Name: FK506 binding protein 12-rapamycin associated protein 1	Recommended Dilutions: FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension	
		Calculated MW: 289 kDa	Excitation/Emission maxima wavelengths: 654 nm / 674 nm	
Applications	Tested Applications: FC (Intra)		ositive Controls: C (Intra) : Calyculin A treated HeLa cells,	
	Species Specificity: human, mouse	rc (mua). Ca	iyoum A liealed neta 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, pH7.3 Aliquoting is unnecessary for -20°C storage			

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10^6 Calyculin A treated HeLa cells were intracellularly stained with 0.25 ug CoraLite® Plus 647 Anti-Human Phospho-mTOR (Ser2448) (CL647-67778, Clone:2A12G3) (red), or 0.25 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with 90% MeOH.