

For Research Use Only

CoraLite®594-conjugated mTOR Monoclonal antibody



Catalog Number: CL594-66888

2 Publications

Basic Information

Catalog Number: CL594-66888	GenBank Accession Number: NM_004958	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 2475	CloneNo.: 1G11A3
Source: Mouse	Full Name: FK506 binding protein 12-rapamycin associated protein 1	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a	Calculated MW: 289 kDa	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG28395	Observed MW: 250-289 kDa	

Applications

Tested Applications: IF	Positive Controls: IF : HepG2 cells,
Cited Applications: IF	
Species Specificity: Human, Mouse, Rat	
Cited Species: human, mouse	

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 has a calculated molecular mass of 289 kDa, and always can be detected at about 250 kDa due to some modifications (PMID: 14578359).

Notable Publications

Author	Pubmed ID	Journal	Application
Shuo Geng	37961551	bioRxiv	IF
Margot R F Reijnders	37057673	Genet Med	IF

Storage

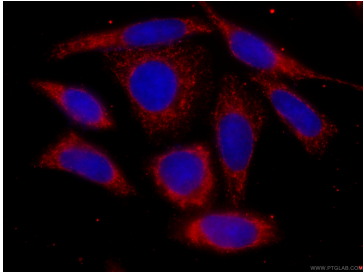
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL594-66888 (mTOR antibody) at dilution of 1:100.