

CoraLite®594-conjugated mTOR Monoclonal antibody

Catalog Number: CL594-66888

2 Publications

Basic Information

Catalog Number:

CL594-66888

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG28395

GenBank Accession Number:

NM_004958

GeneID (NCBI):

2475

UNIPROT ID:

P42345

Full Name:

FK506 binding protein 12-rapamycin associated protein 1

Calculated MW:

289 kDa

Observed MW:

250-289 kDa

Purification Method:

Protein A purification

CloneNo.:

1G11A3

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC

Cited Applications:

IF

Species Specificity:

Human, Mouse, Rat

Cited Species:

human, mouse

Positive Controls:

IF/ICC : HepG2 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 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

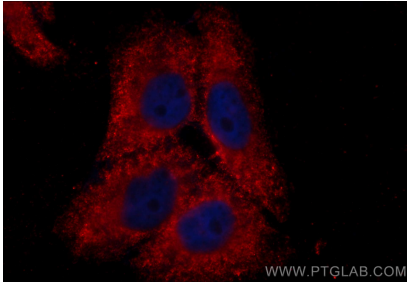
For technical support and original validation data for this product please contact:

T: 4006900926

E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite®594 mTOR antibody (CL594-66888, Clone: 1G11A3) at dilution of 1:200.