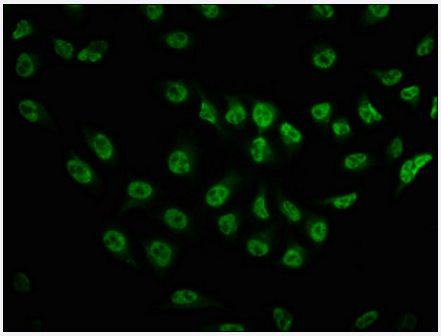
RecomAb™ Sm Size

MTOR (phospho S2481) recombinant monoclonal antibody, clone 3H11

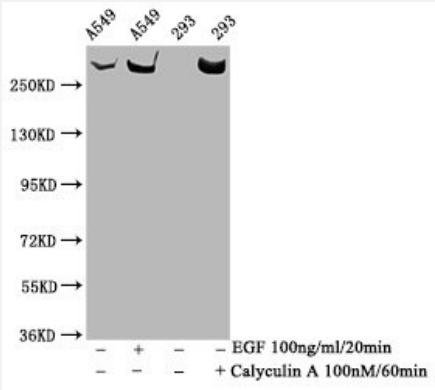
Catalog # RAB08136 Size 50 uL

Applications



Immunofluorescence

Immunofluorescent staining of Hela cells with MTOR (phospho S2481) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).



Western Blot

Western blot analysis of
Lane 1:A549 whole cell lysate (not treated),
Lane 2: A549 whole cell lysate (treated with EGF 100ng/ml/20mins),
Lane 3: 293 whole cell lysate (not treated) and
Lane 4: 293 whole cell lysate (treated with Calyculin A 100nM/60 mins) with MTOR (phospho S2481) recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human MTOR.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g S2481 of human MTOR.
Theoretical MW (kDa)	Calculated MW: 289 k

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Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescent staining of Hela cells with MTOR (phospho S2481) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis of
  Lane 1:A549 whole cell lysate (not treated),
  Lane 2: A549 whole cell lysate (treated with EGF 100ng/ml/20mins),
  Lane 3: 293 whole cell lysate (not treated) and
  Lane 4: 293 whole cell lysate (treated with Calyculin A 100nM/60 mins) with MTOR (phospho S2481) recombinant monoclonal antibody.

Gene Info — MTOR

Entrez GeneID	2475
Protein Accession#	P42345

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Gene Name	MTOR
Gene Alias	FRAP, FRAP1, FRAP2, RAFT1, RAPT1
Gene Description	mechanistic target of rapamycin
Omim ID	601231
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. The ANGPTL7 gene is located in an intron of this gene. [provided by RefSeq
Other Designations	FK506 binding protein 12-rapamycin associated protein 1|FK506 binding protein 12-rapamycin associated protein 2|FK506-binding protein 12-rapamycin complex-associated protein 1|FKBP-rapamycin associated protein|FKBP12-rapamycin complex-associated protein 1

Pathway

- Acute myeloid leukemia
- Adipocytokine signaling pathway
- ErbB signaling pathway
- Glioma
- Insulin signaling pathway
- mTOR signaling pathway
- Pathways in cancer
- Prostate cancer
- Type II diabetes mellitus

Disease

- Adenocarcinoma
- Alzheimer disease
- Cardiovascular Diseases

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- Colonic Neoplasms
- Diabetes Complications
- Esophageal Neoplasms
- Kidney Failure
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis
- Rectal Neoplasms
- Tobacco Use Disorder

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