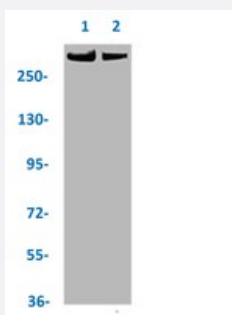


RecomAb™

MTOR (phospho S2448) recombinant monoclonal antibody, clone 1G6

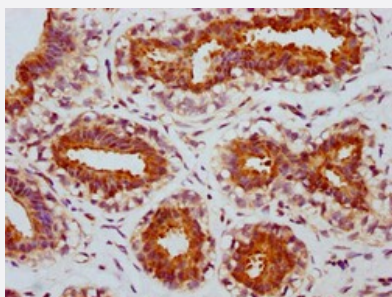
Catalog # RAB04301 Size 100 uL

Applications



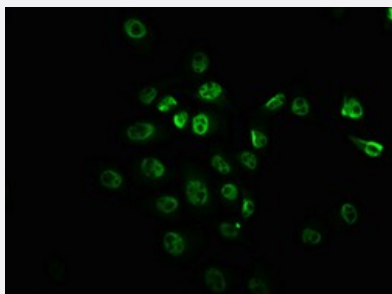
Western Blot

Western blot analysis of Lane 1: Hela whole cell lysate and Lane 2: A549 whole cell lysate with MTOR (phospho S2448) recombinant monoclonal antibody, clone 1G6 (Cat # RAB04301).



Immunohistochemistry

Immunohistochemical staining of human breast carcinoma with MTOR (phospho S2448) recombinant monoclonal antibody, clone 1G6 (Cat # RAB04301) (diluted at 1:100).



Immunofluorescence

Immunofluorescent staining of Hela cells with MTOR (phospho S2448) recombinant monoclonal antibody, clone 1G6 (Cat # RAB04301) (diluted at 1:100). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

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 surrounding S2448 of human MTOR.
Theoretical MW (kDa)	Calculated MW: 289 k
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) 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 should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1: Hela whole cell lysate and Lane 2: A549 whole cell lysate with MTOR (phospho S2448) recombinant monoclonal antibody, clone 1G6 (Cat # RAB04301).

- Immunohistochemistry

Immunohistochemical staining of human breast carcinoma with MTOR (phospho S2448) recombinant monoclonal antibody, clone 1G6 (Cat # RAB04301) (diluted at 1:100).

- Immunofluorescence

Immunofluorescent staining of Hela cells with MTOR (phospho S2448) recombinant monoclonal antibody, clone 1G6 (Cat # RAB04301) (diluted at 1:100). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MTOR

Entrez GeneID [2475](#)

Protein Accession# [P42345](#)

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](#)
- [Colonic Neoplasms](#)
- [Diabetes Complications](#)
- [Esophageal Neoplasms](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
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- [Rectal Neoplasms](#)
- [Tobacco Use Disorder](#)