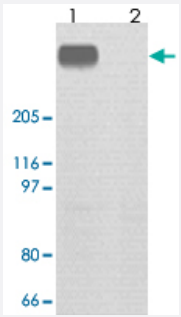
MTOR polyclonal antibody

Catalog # PAB12715 Size 100 ug

Applications



Immunoprecipitation

The cell lysate derived from MCF-7 was immuno-precipitated by MTOR polyclonal antibody (Cat # PAB12715), resolved onto 7.5% SDS-PAGE, transferred onto NC membrane, then immuno-blotted by MTOR polyclonal antibody (Cat # PAB12715) at 1 : 500.
An immunoreactive band around ~290 kDa was observed (lane 1). Lane 2 is a negative control.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MTOR.
Immunogen	A synthetic peptide corresponding to C-terminus of human MTOR.
Host	Rabbit
Theoretical MW (kDa)	290
Reactivity	Human, Mouse, Rat
Specificity	This antibody only recognizes ~290 KDa of human MTOR.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300)

Storage Instruction	Store at 4°C. For long term storage store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry
- Immunoprecipitation

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  An immunoreactive band around ~290 kDa was observed (lane 1). Lane 2 is a negative control.
- Enzyme-linked Immunoabsorbent Assay

Gene Info — MTOR

Entrez GeneID	2475
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

Publication Reference

- Dissociation of raptor from mTOR is a mechanism of rapamycin-induced inhibition of mTOR function.

  Oshiro N, Yoshino K, Hidayat S, Tokunaga C, Hara K, Eguchi S, Avruch J, Yonezawa K.

  Genes to Cells: Devoted to Molecular & Cellular Mechanisms 2004 Apr; 9(4):359.

  Application: IP, WB, Human, HEK 293 cells

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

- Osteoporosis
- Rectal Neoplasms
- Tobacco Use Disorder