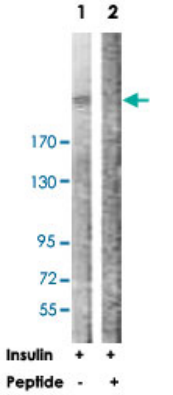
MTOR polyclonal antibody

Catalog # PAB17314 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from NIH/3T3 cells, treated with Insulin (0.01 U/mL, 15 mins), using MTOR polyclonal antibody (Cat # PAB17314). Peptide "+" means "with peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MTOR.
Immunogen	A synthetic peptide corresponding to residues surrounding threonine 2446 of human MTOR.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of total MTOR protein.
Form	Liquid
Recommend Usage	Western Blot (1:500-1:1000) ELISA (1:20000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (150mM NaCl, 0.02% sodium azide, 50% glycerol)
Storage Instruction	Store at -20°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

- Western Blot (Cell lysate)

  Western blot analysis of extracts from NIH/3T3 cells, treated with Insulin (0.01 U/mL, 15 mins), using MTOR polyclonal antibody (Cat # PAB17314).
  Peptide "+" means "with peptide blocking".

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 kinas es. These kinases mediate cellular responses to stresses such as DNA damage and nutrient dep rivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of t he FKBP12-rapamycin complex. The ANGPTL7 gene is located in an intron of this gene. [provide d by RefSeq
Other Designations	FK506 binding protein 12-rapamycin associated protein 1|FK506 binding protein 12-rapamycin a ssociated protein 2|FK506-binding protein 12-rapamycin complex-associated protein 1|FKBP-ra pamycin associated protein|FKBP12-rapamycin complex-associated protein 1

Publication Reference

- Molecular cloning and expression analysis of five novel genes in chromosome 1p36.

  Onyango P, Lubyova B, Gardellin P, Kurzbauer R, Weith A.

  Genomics 1998 Jun; 50(2):187.

- A mammalian protein targeted by G1-arresting rapamycin-receptor complex.

  Brown EJ, Albers MW, Shin TB, Ichikawa K, Keith CT, Lane WS, Schreiber SL.

  Nature 1994 Jun; 369(6483):756.

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