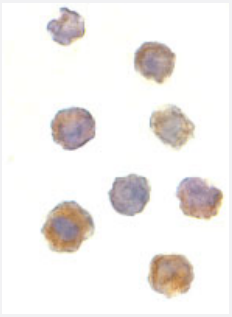
MTOR polyclonal antibody

Catalog # PAB12944 Size 100 ug

Applications



Immunocytochemistry

Immunocytochemistry of MTOR in L1210 cells with MTOR polyclonal antibody (Cat # PAB12944) at 2 ug/mL .



Western Blot (Cell lysate)

Western blot analysis of MTOR in L1210 cell lysate with MTOR polyclonal antibody (Cat # PAB12944) at (A) 1 and (B) 2 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of FRAP1.
Immunogen	A synthetic peptide corresponding to N-terminus 15 amino acids of human FRAP1.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Recommend Usage	Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.

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Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°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

- Immunocytochemistry

  Immunocytochemistry of MTOR in L1210 cells with MTOR polyclonal antibody (Cat # PAB12944) at 2 ug/mL .

- Western Blot (Cell lysate)

  Western blot analysis of MTOR in L1210 cell lysate with MTOR polyclonal antibody (Cat # PAB12944) at (A) 1 and (B) 2 ug/mL .

Gene Info — MTOR

Entrez GeneID	2475
Protein Accession#	NP_004949
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

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- Target of rapamycin (TOR): an integrator of nutrient and growth factor signals and coordinator of cell growth and cell cycle progression.

  Fingar DC, Blenis J.

  Oncogene 2004 Apr; 23(18):3151.

- Molecular mechanisms of immunosuppression by cyclosporine, FK506, and rapamycin.

  Cardenas ME, Zhu D, Heitman J.

  Current Opinion in Nephrology and Hypertension 1995 Nov; 4(6):472.

  Application: WB-Ce, WB-Tr, Human, Mammalian cells

- RAFT1: a mammalian protein that binds to FKBP12 in a rapamycin-dependent fashion and is homologous to yeast TORs.

  Sabatini DM, Erdjument-Bromage H, Lui M, Tempst P, Snyder SH.

  Cell 1994 Jul; 78(1):35.

  Application: IP, WB-Re, N/A, Recombinant protein

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

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

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