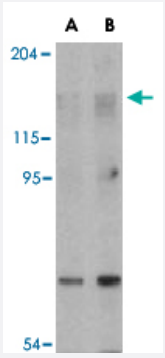
RPTOR polyclonal antibody

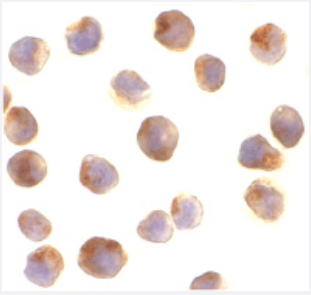
Catalog # PAB13418 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of RPTOR in L1210 cell lysate with RPTOR polyclonal antibody (Cat # PAB13418) at (A) 2 and (B) 4 ug/mL .



Immunocytochemistry

Immunocytochemistry of RPTOR in L1210 cells with RPTOR polyclonal antibody (Cat # PAB13418) at 10 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of RPTOR.
Immunogen	A synthetic peptide corresponding to N-terminus 13 amino acids of human RPTOR.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	Raptor has multiple isoforms that may also be recognized by antibody.
Form	Liquid

Recommend Usage	Western Blot (2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage 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)

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- Immunocytochemistry

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Gene Info — RPTOR

Entrez GeneID	57521
Protein Accession#	Q8N122
Gene Name	RPTOR
Gene Alias	KOG1, Mip1
Gene Description	regulatory associated protein of MTOR, complex 1
Omim ID	607130
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a component of a signaling pathway that regulates cell growth in response to nutrient and insulin levels. The encoded protein forms a stoichiometric complex with the mTOR kin ase, and also associates with eukaryotic initiation factor 4E-binding protein-1 and ribosomal prot ein S6 kinase. The protein positively regulates the downstream effector ribosomal protein S6 kina se, and negatively regulates the mTOR kinase. Multiple transcript variants encoding different isofo rms have been found for this gene. [provided by RefSeq
Other Designations	p150 target of rapamycin (TOR)-scaffold protein containing WD-repeats|regulatory associated pr otein of mTOR

Publication Reference

- 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.

- Integration of growth factor and nutrient signaling: implications for cancer biology.

  Shamji AF, Nghiem P, Schreiber SL.

  Molecular Cell 2003 Aug; 12(2):271.

- Amino acid sufficiency and mTOR regulate p70 S6 kinase and eIF-4E BP1 through a common effector mechanism.

  Hara K, Yonezawa K, Weng QP, Kozlowski MT, Belham C, Avruch J.

  The Journal of Biological Chemistry 1998 Jun; 273(23):14484.

Pathway

- Insulin signaling pathway
- mTOR signaling pathway

Disease

- Genetic Predisposition to Disease
- Tobacco Use Disorder
- Urinary Bladder Neoplasms