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Product datasheet for TA319977

Rptor Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 2 - 4 ug/mL, ICC: 10 ug/mL, IF: 10 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Raptor polyclonal antibody was raised against a 13 amino acid synthetic peptide from near the amino-terminus of human Raptor. The immunogen is located within amino acids 90 - 140 of Raptor.
Formulation:	Raptor Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Raptor Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	regulatory associated protein of MTOR, complex 1
Database Link:	NP_065812 Entrez Gene 74370 Mouse Q8N122

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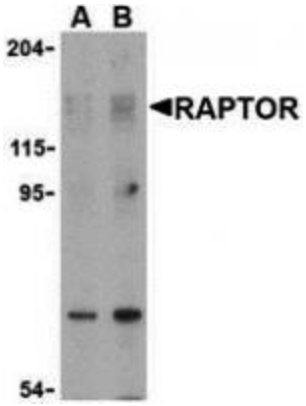
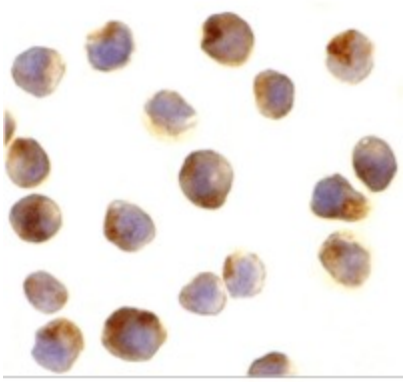
Background: Raptor Antibody: The mammalian Target of Rapamycin (TOR, also known as mTOR) is an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors. Rapamycin inhibits TOR activity resulting in reduced cell growth and reduced rates of cell cycle and cell proliferation. Raptor (regulatory associated protein of TOR) is a TOR-binding protein essential for TOR signaling in vivo. It acts as a TOR scaffold protein whose binding by TOR substrates is necessary for effective TOR-catalyzed phosphorylation. These substrates include the ribosomal protein S6 kinase (RP S6K) and the eukaryotic initiation factor 4E binding protein 4EBP1, proteins necessary for cell growth and proliferation and responsive to nutrient and mitogen levels. Raptor binds these proteins through a common 5 amino acid TOR-signaling (TOS) motif; mutation of this motif prevents the TOR-dependent phosphorylation of these proteins.

Synonyms: KOG1; Mip1

Product images:



Western blot analysis of Raptor in L1210 cell lysate with Raptor antibody at (A) 2 and (B) 4 ug/mL.



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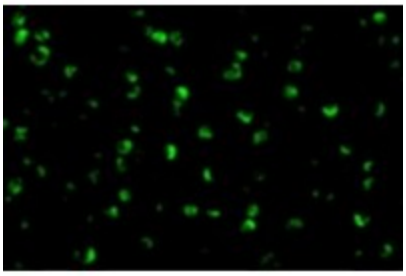

Immunocytochemistry of RAPTOR in L1210 cells with RAPTOR antibody at 10ug/ml.