

AB-PN981

RPTOR-pS859+pS863 Antibody

Phosphosite-specific rabbit polyclonal antibody for RPTOR (RAPTOR)



KINEXUS

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Target Protein

Protein Name Long:	Regulatory-associated protein of mTOR
Protein Alias:	KIAA1303; KOG1; Mip1; P150 target of rapamycin (TOR)-scaffold protein; RAPTOR; Regulatory associated protein of mTOR; Regulatory associated protein of MTOR, complex 1; Regulatory-associated protein of mTOR; P150 target of rapamycin (TOR)-scaffold protein; RPOR
UniProt ID:	Q8N122
Protein Molecular Mass:	149,038 Da (1,335 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human RPTOR
Antibody Immunogen Sequence:	LTQ(pS)APA(pS)PTN(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues L856 to N866. The effects of Raptor S859 and S863 phosphorylation are unclear. These are major sites of <i>in vivo</i> phosphorylation of Raptor based on ≥74 and ≥107 high throughput mass spectrometry reports, respectively, recorded in PhosphoSitePlus. RPTOR is known to be phosphorylated <i>in vitro</i> at S859 by GSK3b, mTOR (FRAP1), and ULK1, and at S863 by ERK1 (MAPK3), ERK2 (MAPK1), GSK3b, JNK1 (MAPK8), mTOR (FRAP1), NLK, and p38b MAPK (MAPK11).
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Dog Rat Mouse Chicken Frog Zebra fish

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987