

# AB-PN982

## RPTOR-pT706 Antibody

Phosphosite-specific rabbit polyclonal antibody for RPTOR (RAPTOR). This phosphothreonine-site antibody is highly specific for phosphothreonine.

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### Target Protein

<b>Protein Name Long:</b>	Regulatory-associated protein of mTOR
<b>Protein Alias:</b>	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
<b>UniProt ID:</b>	Q8N122
<b>Protein Molecular Mass:</b>	149,038 Da (1,335 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human RPTOR
<b>Antibody Immunogen Sequence:</b>	CGGSL(pT)PVRD
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues G702 to D710. The effect of Raptor T706 phosphorylation is unclear. This is a minor site of <i>in vivo</i> phosphorylation of Raptor based on $\geq 9$ high throughput mass spectrometry reports recorded in PhosphoSitePlus. RPTOR is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), and JNK1 (MAPK8).
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipепptide 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.
<b>Amount:</b>	25 $\mu$ g
<b>Antibody Concentration:</b>	0.5 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	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.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Chimpanzee   Rhesus macaque   Dog   Rat   Mouse   Chicken   Frog

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