

## Immunotag™ p70 S6 kinase α (phospho Ser447) Polyclonal Antibody

Antibody Specification	
Catalog No.	ITP0214
Product Description	Immunotag™ p70 S6 kinase α (phospho Ser447) Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	p70 S6 kinase α (Ser447)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human p70 S6 kinase α (phospho Ser447)
Specificity	Phospho-p70 S6 kinase α (S447) Polyclonal Antibody detects endogenous levels of p70 S6 kinase α protein only when phosphorylated at S447.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	RPS6KB1
Accession No.	P23443 Q8BSK8 P67999
Alternate Names	RPS6KB1; STK14A; Ribosomal protein S6 kinase beta-1; S6K-beta-1; S6K1; 70 kDa ribosomal protein S6 kinase 1; P70S6K1; p70-S6K 1; Ribosomal protein S6 kinase I; Serine/threonine-protein kinase 14A; p70 ribosomal S6 kinase alpha; p70 S6 kinas

## Antibody Specification

Description	ribosomal protein S6 kinase B1(RPS6KB1) Homo sapiens This gene encodes a member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17. [provided by RefSeq, Jan 2013],
Cell Pathway/ Category	Regulates Angiogenesis, Insulin Receptor, ErbB/HER, mTOR, B Cell Receptor, PI3K/Akt, PI3K/Akt, AMPK
Protein Expression	Epithelium, Eye, Testis,
Subcellular Localization	nucleus, nucleoplasm, cytoplasm, mitochondrion, mitochondrial outer membrane, cytosol, cell surface, cell junction, neuron projection, synapse, perinuclear region of cytoplasm,
Protein Function	catalytic activity: ATP + a protein = ADP + a phosphoprotein., enzyme regulation: Activation by serine/threonine phosphorylation and protein kinase C, inactivated by type 2A phosphatase., function: Phosphorylates specifically ribosomal protein S6 in response to insulin or several classes of mitogens., similarity: Belongs to the protein kinase superfamily., similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily., similarity: Contains 1 AGC-kinase C-terminal domain., similarity: Contains 1 protein kinase domain., subunit: Interacts with PPP1R9A/neurabin-1., tissue specificity: Widely expressed.,
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