

## Immunotag™ p70 S6 kinase α Polyclonal Antibody

| Antibody Specification |                                                                                                                                                                                                                                                  |
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| Catalog No.            | ITT3551                                                                                                                                                                                                                                          |
| Product Description    | Immunotag™ p70 S6 kinase α 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         | p8000 S6 kinase α                                                                                                                                                                                                                                |
| Clonality              | Polyclonal                                                                                                                                                                                                                                       |
| Storage/Stability      | -20°C/1 year                                                                                                                                                                                                                                     |
| Application            | WB,IHC-p,IF,ELISA                                                                                                                                                                                                                                |
| Recommended Dilution   | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.                                                                                     |
| Concentration          | 1 mg/ml                                                                                                                                                                                                                                          |
| Reactive Species       | Human,Mouse,Rat                                                                                                                                                                                                                                  |
| Host Species           | Rabbit                                                                                                                                                                                                                                           |
| Immunogen              | Synthesized peptide derived from p70 S6 kinase α, at AA range: 370-450                                                                                                                                                                           |
| Specificity            | p70 S6 kinase α Polyclonal Antibody detects endogenous levels of p70 S6 kinase α protein.                                                                                                                                                        |
| 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

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| 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/<br>Category   | Regulates Angiogenesis, Insulin Receptor, ErbB/HER, mTOR, B Cell Receptor, PI3K/Akt, PI3K/Akt, AMPK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protein<br>Expression       | Epithelium, Eye, Testis,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Subcellular<br>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., |
| Usage                       | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |