

## p70S6Kb recombinant protein

p70S6Kb, Active

|                              |                                                   |                                     |
|------------------------------|---------------------------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73122</b> | HOST<br><b>Sf9 insect cells using baculovirus</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------------------------|-------------------------------------|

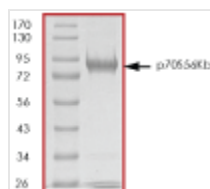
### PRODUCT SYNONYMS

p70S6Kb; Active; p70S6Kb recombinant protein

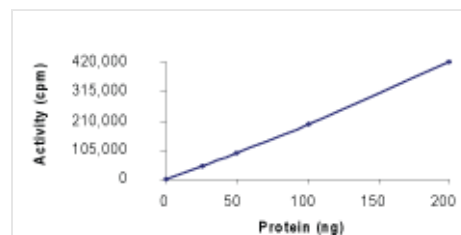
### PRODUCT SPECIFICATIONS

|                                                         |                                                                                                                                                                                                                                                      |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                    | Sf9 insect cells using baculovirus                                                                                                                                                                                                                   |
| Form/Format                                             | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                               |
| Sequence Positions                                      | Full Length                                                                                                                                                                                                                                          |
| Sequence Length                                         | 1798                                                                                                                                                                                                                                                 |
| Applicable Applications for p70S6Kb recombinant protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                      |
| Species                                                 | Human                                                                                                                                                                                                                                                |
| Tag                                                     | GST tag                                                                                                                                                                                                                                              |
| Dry Ice Note                                            | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                                   |
| Preparation and Storage                                 | Store product at -70 degree C.<br>For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature.<br>For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES



Application Data



Application Data

### ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Related Product Information for p70S6Kb recombinant protein | <p>Description: Recombinant full-length human p70S6Kb was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.</p> <p>Scientific Background: p70S6Kb is a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases and is activated by mitogenic stimuli, including growth factors, cytokines, and phorbol esters. p70S6Kb contains 2 nonidentical kinase catalytic domains and phosphorylates the S6 ribosomal protein and eucaryotic translation initiation factor 4B. Phosphorylation of S6 leads to an increase in protein synthesis and cell proliferation. PI3 kinase pathway and mTOR are involved in the activation of p70S6Kb but other pathways can also activate this target protein.</p> |
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| Product Categories/Family for p70S6Kb recombinant protein | Enzymes; Active Kinases                                                                                                                                                                                                                                                                                                                          |
| References                                                | 1. Gout, I. et al: Molecular cloning and characterization of a novel p70 S6 kinase, p70 S6 kinase beta containing a proline-rich region. J. Biol. Chem. 273: 30061-30064, 1998. 2. Saitoh, M. et al: Cloning and characterization of p70 (S6K-beta) defines a novel family of p70 S6 kinases. Biochem. Biophys. Res. Commun. 253: 470-476, 1998. |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 37588971                                                                                                          |
| NCBI GeneID                      | 6199                                                                                                              |
| Molecular Weight                 | ~85 kDa                                                                                                           |
| NCBI Official Full Name          | Homo sapiens ribosomal protein S6 kinase, 70kDa, polypeptide 2, mRNA                                              |
| NCBI Official Synonym Full Names | ribosomal protein S6 kinase B2                                                                                    |
| NCBI Official Symbol             | RPS6KB2                                                                                                           |
| NCBI Official Synonym Symbols    | KLS; SRK; S6K2; STK14B; p70S6Kb; P70-beta; S6K-beta2; P70-beta-1; P70-beta-2; p70(S6K)-beta                       |
| NCBI Protein Information         | ribosomal protein S6 kinase beta-2                                                                                |
| UniProt Protein Name             | Ribosomal protein S6 kinase beta-2                                                                                |
| UniProt Gene Name                | RPS6KB2                                                                                                           |
| UniProt Synonym Gene Names       | STK14B; S6K-beta-2; S6K2; P70S6K2; p70-S6K 2; SRK; S6K-beta; p70 S6 kinase beta; p70 S6K-beta; p70 S6KB; p70-beta |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.