

## RPS6KB1 active protein

Recombinant RPS6KB1 protein

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|------------------------------|----------------------------|
| CATALOG #<br><b>AAA60322</b> | HOST<br><b>Baculovirus</b> |
|------------------------------|----------------------------|

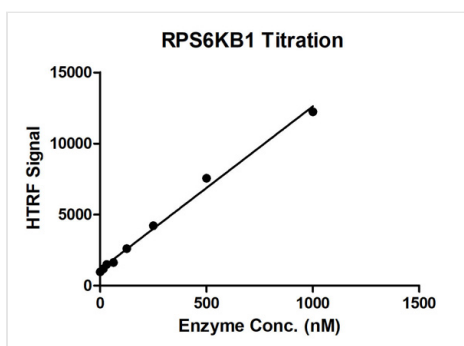
### PRODUCT SYNONYMS

RPS6KB1; Recombinant RPS6KB1 protein; Ribosomal Protein S6 Kinase B1; RPS6KB1 active protein

### PRODUCT SPECIFICATIONS

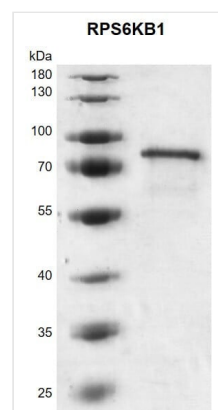
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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Baculovirus                                                                                                                                                                                                           |
| Purity/Purification     | >=95%                                                                                                                                                                                                                 |
| Form/Format             | Recombinant RPS6KB1 protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.                                                                                       |
| Protein Species         | Human                                                                                                                                                                                                                 |
| Tag                     | DYKDDDDK-Tag                                                                                                                                                                                                          |
| Protein Details         | Recombinant RPS6KB1 protein was expressed in baculovirus expression system as the full length protein (accession number NP_003152.1) with a N-terminal DYKDDDDK tag. The molecular weight of the protein is 60.4 kDa. |
| 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 | Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.                          |

### IMAGES



#### Bioactivity

HTRF assay for RPS6KB1 activity 1 uM STK S3 substrate was incubated with different concentrations of RPS6KB1 protein in a 10 ul reaction system containing 1×Enzymatic Buffer, 2 mM MgCl<sub>2</sub>, 1 mM DTT, and 100 uM ATP for 1 hour. The 10 ul detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1× Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



#### SDS-PAGE

Recombinant RPS6KB1 protein 10% SDS-PAGE Coomassie staining MW: 60.4 kDa Purity: >= 95%

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Related Product Information for RPS6KB1 active protein | RPS6KB1 (Ribosomal Protein S6 Kinase B1) is a serine/threonine-protein kinase that acts downstream of mTOR signaling in response to growth factors and nutrients to promote cell proliferation, cell growth and cell cycle progression.RPS6KB1 regulates protein synthesis through phosphorylation of EIF4B, RPS6 and EEF2K, and contributes to cell survival by repressing the pro-apoptotic function of BAD. Under conditions of nutrient depletion, the inactive form associates with the EIF3 translation initiation complex. Upon mitogenic stimulation, phosphorylation by the mammalian target of rapamycin complex 1 (mTORC1) leads to dissociation from the EIF3 complex and activation. The active form then phosphorylates and activates several substrates in the pre-initiation complex, including the EIF2B complex and the cap-binding complex component EIF4B. |
| Product Categories/Family for RPS6KB1 active protein   | Kinase; Recombinant Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**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.

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Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/rps6kb1/60322>