



Full-Length

# RPS6KB2 (Human) Recombinant Protein

Catalog # P6533 Size 5 ug

## Applications

### Result of activity analysis

Result of activity analysis

Specification	
Product Description	Human RPS6KB2 (NP_003943.2, 1 a.a 482 a.a.) full length recombinant protein with GST-tag at N -terminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.71
Activity	The activity was measured by off-chip mobility shift assay (MSA). The enzyme was incubated with flu orecence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrat es were separated and detected by MSA device. Substrate: S6K2 peptide, ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

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Note

Result of activity analysis Result of activity analysis

### Applications

• Functional Study

### Gene Info — RPS6KB2

Entrez GenelD	<u>6199</u>
Protein Accession#	<u>NP_003943.2</u>
Gene Name	RPS6KB2
Gene Alias	KLS, P70-beta, P70-beta-1, P70-beta-2, S6K-beta2, S6K2, SRK, STK14B, p70(S6K)-beta, p70 S6Kb
Gene Description	ribosomal protein S6 kinase, 70kDa, polypeptide 2
Omim ID	<u>608939</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinase s. This kinase contains 2 nonidentical kinase catalytic domains and phosphorylates the S6 riboso mal protein and eucaryotic translation initiation factor 4B (eIF4B). Phosphorylation of S6 leads to an increase in protein synthesis and cell proliferation. [provided by RefSeq
Other Designations	S6 kinase-related kinase p70 ribosomal S6 kinase beta ribosomal protein S6 kinase, 70kD, poly peptide 2 serine/threonine-protein kinase 14 beta

### Pathway

- Acute myeloid leukemia
- ErbB signaling pathway
- Fc gamma R-mediated phagocytosis
- Insulin signaling pathway
- mTOR signaling pathway



• TGF-beta signaling pathway

### Disease

- Head and Neck Neoplasms
- <u>Neoplasm Recurrence</u>
- <u>Neoplasms</u>