

Recombinant Human RPS6KB2, GST-tagged, Active

Cat. No. RPS6KB2-377H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human RPS6KB1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW=85 kDa.
Species	Human
Source	Sf9 Cells
Description	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.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

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Gene Name	RPS6KB2 ribosomal protein S6 kinase, 70kDa, polypeptide 2 [Homo sapiens]
Synonyms	RPS6KB2; ribosomal protein S6 kinase, 70kDa, polypeptide 2; KLS; SRK; S6K2; STK14B; p70S6Kb; P70-beta; S6K-beta2; P70-beta-1; P70-beta-2; p70(S6K)-beta; S6 kinase-related kinase; p70 ribosomal S6 kinase beta; serine/threonine-protein kinase 14 beta; EC 2.7.11.1
Gene ID	6199
mRNA Refseq	NM_003952
Protein Refseq	NP_003943
MIM	608939
UniProt ID	Q9UBS0
Chromosome Location	11q13.2
Pathway	Acute myeloid leukemia; ErbB signaling pathway; Fc gamma R-mediated phagocytosis; Insulin signaling pathway; TGF-beta signaling pathway; mTOR signaling pathway; Signaling by NGF
Function	ATP binding; nucleotide binding; protein binding; ribosomal protein S6 kinase activity; transferase activity