Recombinant Human RPS6KB1, GST-tagged

Cat. No. RPS6KB1-560H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RPS6KB1 was expressed by*baculovirus in Sf9 insect cells*using a N-terminal GST tag. MW=74kDa.
Species	Human
Source	Sf9 Cells
Description	P70S6K is responsible for the phosphorylation of 40S ribosomal protein S6 and is ubiquitously expressed in human adult tissues. p70S6K is activated by serum stimulation and this activation is inhibited by wortmannin and rapamycin. p70S6k activity undergoes changes in the cell cycle and increases 20-fold in G1 cells released from G0. p70S6K activation requires sequential phosphorylations at proline-directed residues in the putative autoinhibitory pseudosubstrate domain, as well as threonine 389 a site phosphorylated by phosphoinositide-dependent kinase 1 (PDK-1).
Puriry	>60%.
Specific Activity	2 pmol/min/μg Enzyme reaction is conducted in a buffer containing 50 mM HEPES (pH7.5), 10 mM MgCl2, 1 mM EGTA, 200 μM ATP, 0.01% Brij-35 and 2 μM substrate (SER/THR 7, Invitrogen) at room temperature for 1 hour.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Fomulated in	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 30% glycerol, and 3 mM

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	DTT.
Stability	>6 months at –80°C.

GENE INFORMATION

Gene Name	RPS6KB1 ribosomal protein S6 kinase, 70kDa, polypeptide 1 [Homo sapiens]
Synonyms	RPS6KB1; ribosomal protein S6 kinase, 70kDa, polypeptide 1; S6K; PS6K; S6K1; STK14A; p70-S6K; p70-alpha; p70(S6K)-alpha; p70 S6 kinase, alpha 1; p70 S6 kinase, alpha 2; serine/threonine kinase 14 alpha; EC 2.7.11.1
Gene ID	6198
mRNA Refseq	NM_003161
Protein Refseq	NP_003152
MIM	608938
UniProt ID	P23443
Chromosome Location	17q23.1
Pathway	Acute myeloid leukemia; ErbB signaling pathway; Fc gamma R-mediated phagocytosis; Insulin signaling pathway; TGF-beta signaling pathway; mTOR signaling pathway; Signaling by Insulin receptor
Function	ATP binding; nucleotide binding; peptide binding; protein binding; ribosomal protein S6 kinase activity; transferase activity

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