

Recombinant Human RPS6KB1 cell lysate

Cat. No. RPS6KB1-001HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human S6K / RPS6KB1 derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.
GENE INFORMATION	
Gene Name	RPS6KB1 ribosomal protein S6 kinase, 70kDa, polypeptide 1 [Homo sapiens]
Official Symbol	RPS6KB1
Synonyms	RPS6KB1; ribosomal protein S6 kinase, 70kDa, polypeptide 1; ribosomal protein S6 kinase, 70kD, polypeptide 1 , STK14A; ribosomal protein S6 kinase beta-1; p70(S6K) alpha; PS6K; S6K1; P70S6K1; p70 S6KA; S6K-beta-1; p70 S6K-alpha; p70 S6 kinase, alpha 1; p70 S6 kinase, alpha 2; ribosomal protein S6 kinase I; serine/threonine kinase 14 alpha; serine/threonine-protein kinase 14A; 70 kDa ribosomal protein S6 kinase 1; S6K; STK14A; p70-S6K; p70-alpha; p70(S6K)-alpha;
Gene ID	6198
mRNA Refseq	NM_003161
Protein Refseq	NP_003152
MIM	608938

UniProt ID	P23443
Chromosome Location	17q23.1
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem;
Function	ATP binding; nucleotide binding; peptide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; ribosomal protein S6 kinase activity;

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