

Recombinant Human STK4 cell lysate

Cat. No. STK4-604HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MST-1 / STK4 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	STK4 serine/threonine kinase 4 [Homo sapiens]
Official Symbol	STK4
Synonyms	STK4; serine/threonine kinase 4; serine/threonine-protein kinase 4; kinase responsive to stress 2; KRS2; mammalian sterile 20 like 1; MST1; yeast Ste20 like; YSK3; MST-1; STE20-like kinase MST1; mammalian sterile 20-like 1; mammalian STE20-like protein kinase 1; serine/threonine-protein kinase Krs-2; dJ211D12.2 (serine/threonine kinase 4 (MST1, KRS2)); DKFZp686A2068;
Gene ID	6789
mRNA Refseq	NM_006282
Protein Refseq	NP_006273
MIM	604965

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UniProt ID	Q13043
Chromosome Location	20q11.2-q13.2
Pathway	MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; Non-small cell lung cancer, organism-specific biosystem; Non-small cell lung cancer, conserved biosystem; Pathways in cancer, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by Hippo, organism-specific biosystem;
Function	ATP binding; identical protein binding; magnesium ion binding; nucleotide binding; protein binding; protein dimerization activity; protein homodimerization activity; protein serine/threonine kinase activator activity; protein serine/threonine kinase activity; transcription factor binding;