Active Recombinant Human STK39, His-tagged

Cat. No. STK39-1490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human STK39 (STLK3) was expressed using baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	STK39 (also known as serine threonine kinase 39) is involved in the cellular stress response pathway. STK39 is activated in response to hypotonic stress leading to phosphorylation of several cation-chloride-coupled co-transporters. STK39 activates the p38 MAP kinase pathway and its interaction with p38 decreases during cellular stress. STK39 acts as an intermediate in the response to cellular stress. STK39 is also an independent risk factor for hypertension in men and its intragenic SNPs can interact and function in the control of blood pressure.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Bio-activity	22 nmol/min/mg
Molecular Mass	~63 kDa
Purity	>95%

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Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	STK39 serine threonine kinase 39 [Homo sapiens]
Official Symbol	STK39
Synonyms	STK39; serine threonine kinase 39; STE20/SPS1-related proline-alanine-rich protein kinase; DCHT; SPAK; STE20/SPS1 homolog (yeast); STE20/SPS1 homolog; ste-20-related kinase; Ste20-like protein kinase; small intestine SPAK-like kinase; serine/threonine-protein kinase 39; proline-alanine-rich STE20-related kinase; serine threonine kinase 39 (STE20/SPS1 homolog, yeast); PASK; DKFZp686K05124;
Gene ID	27347
mRNA Refseq	NM_013233
Protein Refseq	NP_037365
MIM	607648
UniProt ID	Q9UEW8
Chromosome Location	2q24.3

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Pathway	T Cell Receptor Signaling Pathway, organism-specific biosystem; TCR signaling in naive CD4+ T cells, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein kinase binding; receptor signaling protein serine/threonine kinase activity;

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