Recombinant Human Serine/Threonine Kinase 39, His-tagged

Cat. No. STK39-1109H **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
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.
Applications	Kinase Assay; Western Blot
Molecular Weight	63 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.
Specific Activity	22 nmol/min/mg

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 95 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70oC. 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.
Pathways	T Cell Receptor Signaling Pathway; TCR signaling in naive CD4+ T cells

GENE INFORMATION

Gene Name	STK39 serine threonine kinase 39 [Homo sapiens]
Official Symbol	STK39
Synonyms	STK39; serine/threonine kinase 39; DCHT; PASK; SPAK; DKFZp686K05124; STE20/SPS1 homolog (yeast); STE20/SPS1-related proline-alanine-rich protein kinase; Ste-20-related kinase; EC=2.7.11.1; Serine/threonine-protein kinase 39; serine threonine kinase 39 (STE20/SPS1 homolog, yeast); small intestine SPAK-like kinase; Ste20-like protein kinase; STE20/SPS1 homolog; EC 2.7.11; EC 2.7.11.1; OTTHUMP00000165175
Gene ID	27347
mRNA Refseq	NM_013233
Protein Refseq	NP_037365

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MIM	607648
UniProt ID	Q9UEW8
Chromosome Location	2q24.3
Function	ATP binding; nucleotide binding; protein kinase binding; receptor sinaling protein serine/threonine kinase activity

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