Active Recombinant Human STK3, GST-tagged

Cat. No. STK3-1486H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human STK3 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	STK3, also known as MST2, encodes a protein of 491-amino acid which contains an N-terminal catalytic domain characteristic of STKs. STK3 and STK4 share 94% amino acid identity in the catalytic domain and 78% identity overall. RAF1 has been shown to counteract apoptosis by suppressing the activation of mammalian sterile 20-like kinase (MST2). STK3 is a kinase that is activated by the proapoptotic agents straurosporine and FAS ligand. STK3 activation presumably allows cells to resist unfavorable environmental conditions.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	277 nmol/min/mg
Molecular Mass	~87 kDa
Purity	>80%

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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	STK3 serine/threonine kinase 3 [Homo sapiens]
Official Symbol	STK3
Synonyms	STK3; serine/threonine kinase 3; serine/threonine kinase 3 (Ste20, yeast homolog); serine/threonine-protein kinase 3; KRS1; MST2; MST-2; STE20-like kinase MST2; mammalian STE20-like protein kinase 2; serine/threonine-protein kinase Krs-1; serine/threonine kinase 3 (STE20 homolog, yeast); FLJ90748;
Gene ID	6788
mRNA Refseq	NM_001256312
Protein Refseq	NP_001243241
MIM	605030
UniProt ID	Q13188
Chromosome Location	8q22.2

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Pathway	MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; Signal Transduction, organism-specific biosystem; Signaling by Hippo, organism-specific biosystem;
Function	ATP binding; ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein dimerization activity; protein kinase activity; protein kinase activity; protein serine/threonine kinase activator activity; protein serine/threonine kinase activity;

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