

Active Recombinant Human STK19, GST-tagged

Cat. No. STK19-263H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human STK19 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	STK19 is a member of the serine/threonine kinase family that shows a manganese-dependent protein kinase activity and phosphorylates α -casein at ser/thr residues and histone at ser residues. STK19 contains a positively charged putative nuclear localization signal, multiple potential phosphorylation sites, 2 amidation sites, 9 potential N-myristoylation sites, and no N-glycosylation sites. STK19 has been shown to localize predominantly in the nucleus. The phosphorylation of STK19 is thought to be involved in transcriptional regulation. STK19 localizes to the major histocompatibility complex (MHC) class III region on chromosome 6.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	The specific activity of STK19 was determined to be 2 nmol /min/mg
Molecular Mass	~70 kDa
Purity	>70% by densitometry

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Applications	Kinase Assay, Western Blot
Storage	Store product at –70 centigrade. 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.
Concentration	0.05 µg/µl
GENE INFORMATION	
Gene Name	STK19 serine/threonine kinase 19 [Homo sapiens]
Official Symbol	STK19
Synonyms	STK19; serine/threonine kinase 19; serine/threonine-protein kinase 19; D6S60; G11; RP1; MHC class III HLA-RP1; nuclear serine/threonine protein kinase; D6S60E; HLA-RP1; MGC117388;
Gene ID	8859
mRNA Refseq	NM_004197
Protein Refseq	NP_004188
MIM	604977
UniProt ID	P49842
Chromosome Location	6p21.33

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Function

ATP binding; kinase activity; nucleotide binding; protein serine/threonine kinase activity; transferase activity;

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