

Active Recombinant Human STK36, GST-tagged

Cat. No. STK36-264H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human STK36 (1-457) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-457 a.a.
Description	STK36 is a member of the serine/threonine kinase family and is similar to a protein which plays a key role in the Hedgehog signaling pathway. STK36 is a positive regulator of the GLI zinc-finger transcription factors and controls the activity of GLI1 and GLI2 by opposing the effect of SUFU. STK36 is highly expressed in fetal lung and adult testis. STK36 is a target for the treatment of gastrointestinal cancers since the Hedgehog signaling pathway is frequently activated in certain kinds of gastrointestinal cancers. Defects in the STK36 gene may lead to congenital hydrocephalus, possibly due to a functional defect in motile cilia.
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 STK36 was determined to be 0.6 nmol /min/mg
Molecular Mass	~87 kDa

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Purity	>80% by densitometry
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	0.1 µg/µl

GENE INFORMATION

Gene Name	STK36 serine/threonine kinase 36 [Homo sapiens]
Official Symbol	STK36
Synonyms	STK36; serine/threonine kinase 36; serine/threonine kinase 36 (fused homolog, Drosophila); serine/threonine-protein kinase 36; FU; fused homolog (Drosophila); KIAA1278; fused homolog; DKFZp434N0223;
Gene ID	27148
mRNA Refseq	NM_001243313
Protein Refseq	NP_001230242
MIM	607652
UniProt ID	Q9NRP7
Chromosome	2q35

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Location	
Pathway	Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Hedgehog signaling events mediated by Gli proteins, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Pathways in cancer, organism-specific biosystem;
Function	ATP binding; ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; transcription factor binding;

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