

Active Recombinant Human SIK3, GST-tagged

Cat. No. SIK3-1482H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human SIK3 (1-307) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-307 aa
Description	SIK3 (QSK) is a serine/threonine-protein kinase, belongs to QIK subfamily. The phosphorylation of SIK3 by LKB1 through the 14-3-3 binding enhances its catalytic activity and leads its localization to punctate structures within the cytoplasm. Overexpression of SIK3 promotes G1/S cell cycle progression with ovarian cancer. There are two sites (H331L and A1103V) were mutated at significant frequency in breast cancer (3). SIK3 is a novel tumor-associated antigen (TAA).
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	140 nmol/min/mg
Molecular Mass	~62 kDa
Purity	>90%

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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	SIK3 SIK family kinase 3 [Homo sapiens]
Official Symbol	SIK3
Synonyms	SIK3; SIK family kinase 3; serine/threonine-protein kinase SIK3; FLJ12240; KIAA0999; L19; QSK; salt-inducible kinase 3; serine/threonine-protein kinase QSK; SIK-3;
Gene ID	23387
mRNA Refseq	NM_025164
Protein Refseq	NP_079440
UniProt ID	Q9Y2K2
Chromosome Location	11q23.3
Pathway	LKB1 signaling events, organism-specific biosystem;
Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein

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serine/threonine kinase activity;

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