

## Active Recombinant Human NUAK2, GST-tagged

Cat. No. NUAK2-1068H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human NUAK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full Length
<b>Description</b>	<p>NUAK2 or SNF1/AMP kinase-related kinase (SNARK) is a member of the NUAK family of SNF1-like kinase 2. NUAK2 is activated by muscle contraction and is a unique mediator of contraction-stimulated glucose transport in skeletal muscle. NUAK2 is involved in cellular stress responses linked to obesity and type 2 diabetes. NUAK2 shows kinase activity against a synthetic test peptide and the activity in keratinocytes is increased by AMP and 5-amino-4-imidazolecarboxamide riboside, implying that AMPK kinase-dependent pathway can activate NAUK2. Glucose deprivation also increases NAUK2 activity in baby hamster kidney fibroblasts.</p>
<b>Form</b>	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.
<b>Bio-activity</b>	80 nmol/min/mg
<b>Molecular Mass</b>	~110 kDa

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<b>Purity</b>	>75%
<b>Applications</b>	Kinase Assay; Western Blot
<b>Stability</b>	1 yr at -70oC from date of shipment.
<b>Storage</b>	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.
<b>Concentration</b>	0.1 ug/ul

## GENE INFORMATION

<b>Gene Name</b>	NUAK2 NUAKE family, SNF1-like kinase, 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	NUAK2
<b>Synonyms</b>	NUAK2; NUAKE family, SNF1-like kinase, 2; NUAKE family SNF1-like kinase 2; FLJ90349; SNARK; SNF1/AMP activated protein kinase
<b>Gene ID</b>	81788
<b>mRNA Refseq</b>	NM_030952
<b>Protein Refseq</b>	NP_112214
<b>MIM</b>	608131
<b>UniProt ID</b>	Q9H093

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<b>Chromosome Location</b>	1q32.1
<b>Function</b>	ATP binding; metal ion binding; protein binding; protein serine/threonine kinase activity

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