

Active Recombinant Human NUA2, GST-tagged

Cat. No. NUA2-1068H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human NUA2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
Description	NUA2 or SNF1/AMP kinase-related kinase (SNARK) is a member of the NUA family of SNF1-like kinase 2. NUA2 is activated by muscle contraction and is a unique mediator of contraction-stimulated glucose transport in skeletal muscle. NUA2 is involved in cellular stress responses linked to obesity and type 2 diabetes. NUA2 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 NUA2. Glucose deprivation also increases NUA2 activity in baby hamster kidney fibroblasts.
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	80 nmol/min/mg
Molecular Mass	~110 kDa

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Purity	>75%
Applications	Kinase Assay; Western Blot
Stability	1 yr at -70oC from date of shipment.
Storage	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.
Concentration	0.1 ug/ul
GENE INFORMATION	
Gene Name	NUAK2 NUA family, SNF1-like kinase, 2 [Homo sapiens (human)]
Official Symbol	NUAK2
Synonyms	NUAK2; NUA family, SNF1-like kinase, 2; NUA family SNF1-like kinase 2; FLJ90349; SNARK; SNF1/AMP activated protein kinase
Gene ID	81788
mRNA Refseq	NM_030952
Protein Refseq	NP_112214
MIM	608131
UniProt ID	Q9H093

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

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