

Active Recombinant Human NUA1, GST-tagged

Cat. No. NUA1-1439H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human NUA1 (ARK5) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	NUAK1 or SNF1/AMP kinase-related kinase (SNARK) is a member of the NUA1 family of SNF1-like kinase 1 that is also known as AMPK-related protein kinase 5 (ARK5). ARK5 is a tumor cell survival factor that is activated by AKT and acts as an ATM kinase under conditions of nutrient starvation. NUA1 is highly expressed in heart and brain, and at lower levels in skeletal muscle, kidney, ovary, placenta, lung, and liver. NUA1 is involved in tolerance to glucose starvation and suppresses Fas-induced apoptosis by phosphorylation of CASP6, thus suppressing the activation of the caspase and the subsequent cleavage of CFLAR.
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	50 nmol/min/mg
Molecular Mass	~122 kDa

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Purity	>80%
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	NUAK1 NUAK family, SNF1-like kinase, 1 [Homo sapiens]
Official Symbol	NUAK1
Synonyms	NUAK1; NUAK family, SNF1-like kinase, 1; NUAK family SNF1-like kinase 1; AMP activated protein kinase family member 5; ARK5; KIAA0537; NuaK1; omphalocele kinase 1; AMPK-related protein kinase 5; AMP-activated protein kinase family member 5;
Gene ID	9891
mRNA Refseq	NM_014840
Protein Refseq	NP_055655
MIM	608130
UniProt ID	O60285
Chromosome	12q23.3

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Location**Function**

ATP binding; metal ion binding; nucleotide binding; p53 binding; protein binding;
protein serine/threonine kinase activity;

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