Recombinant Human NUAK Family, SNF1-like Kinase, 2

Cat. No. NUAK2-190H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	E.coli
Description	Highest expression of SNARK is found in kidney, followed in order by brain, ovary, heart, lung, skeletal muscle, pancreas, testis, and spleen. In insulin-stimulated adipocytes, SIK2 phosphorylates IRS1 at ser794 and may modulate the efficiency of insulin signal transduction, eventually causing the insulin resistance associated with diabetes. Cells with reduced expression of SNARK also showed reduced motility and invasiveness in response to CD95 engagement. SNARK therefore represents an NF-kappaBregulated anti-apoptotic gene that contributes to the tumorpromoting activity of CD95 in apoptosis-resistant tumor cells. Glucose deprivation increased SNARK activity 3-fold in BHK fibroblasts. These findings identify SNARK as a glucose- and AICAriboside-regulated member of the AMPK-related gene family that represents a new candidate mediator of the cellular response to metabolic stress.
Form	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 20% glycerol, 100 mM KCl, 0.2 mM EDTA and 1 mM DTT.
Purity	> 95% by SDS-PAGE.
Application	SNARK is capable of autophosphorylation in vitro; immunoprecipitated SNARK has been known to show phosphotransferase activity with a synthetic peptide substrate.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	10 ng of SNARK is sufficient to phosphorylate 1 ug of heat-inactivated nuclear or cytoplasmic extract at 30°C for 30 min.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	NUAK2 NUAK family, SNF1-like kinase, 2 [Homo sapiens]
Synonyms	NUAK2; NUAK family, SNF1-like kinase, 2; SNARK; FLJ90349; DKFZp434J037; DKFZp686F01113; SNF1/AMP activated protein kinase; EC 2.7.11.1;SNF1/AMP kinase-related kinase;OTTHUMP00000035319
Gene ID	81788
mRNA Refseq	NM_030952
Protein Refseq	NP_112214
MIM	608131
UniProt ID	Q9H093
Chromosome Location	1q32.1
Function	ATP binding; magnesium ion binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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