

Recombinant Human NUAK Family, SNF1-like Kinase, 2

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

SPECIFICATION

Species	Human
Source	E.coli
Description	<p>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-kappaB-regulated anti-apoptotic gene that contributes to the tumor-promoting 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.</p>
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	<p>SNARK is capable of autophosphorylation in vitro; immunoprecipitated SNARK has been known to show phosphotransferase activity with a synthetic peptide substrate. 10 ng of SNARK is sufficient to phosphorylate 1 ug of heat-inactivated nuclear or</p>

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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](#) NUAKE family, SNF1-like kinase, 2 [Homo sapiens]

Synonyms NUAKE2; NUAKE 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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