

Recombinant Human GAK protein, GST-tagged

Cat. No. GAK-28312TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GAK(151 a.a. - 250 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	151-250 a.a.
Description	In all eukaryotes, the cell cycle is governed by cyclin-dependent protein kinases (CDKs), whose activities are regulated by cyclins and CDK inhibitors in a diverse array of mechanisms that involve the control of phosphorylation and dephosphorylation of Ser, Thr or Tyr residues. Cyclins are molecules that possess a consensus domain called the 'cyclin box.' In mammalian cells, 9 cyclin species have been identified, and they are referred to as cyclins A through I. Cyclin G is a direct transcriptional target of the p53 tumor suppressor gene product and thus functions downstream of p53. GAK is an association partner of cyclin G and CDK5. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.63 kDa
AA Sequence	SAVAPTPATEGPLFSPGGQPAPCGSQASWTKSQNPDPFADLGDLSGLQGSPAGF PPGGFIPKTATTPKGSSSWQTSRPPAQGASWPPQAKPPPKACTQP

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Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	GAK cyclin G associated kinase [Homo sapiens]
Official Symbol	GAK
Synonyms	GAK; cyclin G associated kinase; cyclin-G-associated kinase; auxilin 2; DNAJC26; auxilin-2; DNAJ26; FLJ16629; FLJ40395; MGC99654;
Gene ID	2580
mRNA Refseq	NM_005255
Protein Refseq	NP_005246
MIM	602052
UniProt ID	O14976
Chromosome Location	4p16
Pathway	Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Membrane Trafficking, organism-specific biosystem; trans-Golgi Network Vesicle Budding, organism-specific

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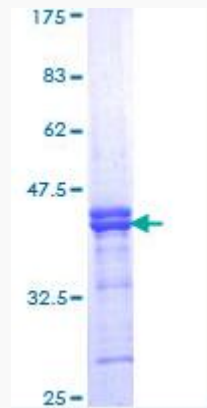
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biosystem;

Function

ATP binding; cyclin binding; heat shock protein binding; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity, transferring phosphorus-containing groups;



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