

Recombinant Full Length Human KPNA2 Protein, C-Flag-tagged

Cat. No. KPNA2-969HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human KPNA2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

Description

The import of proteins into the nucleus is a process that involves at least 2 steps. The first is an energy-independent docking of the protein to the nuclear envelope and the second is an energy-dependent translocation through the nuclear pore complex. Imported proteins require a nuclear localization sequence (NLS) which generally consists of a short region of basic amino acids or 2 such regions spaced about 10 amino acids apart. Proteins involved in the first step of nuclear import have been identified in different systems. These include the *Xenopus* protein importin and its yeast homolog, SRP1 (a suppressor of certain temperature-sensitive mutations of RNA polymerase I in *Saccharomyces cerevisiae*), which bind to the NLS. KPNA2 protein interacts with the NLSs of DNA helicase Q1 and SV40 T antigen and may be involved in the nuclear transport of proteins. KPNA2 also may play a role in V(D)J recombination. Alternative splicing results in multiple transcript variants.

Form

25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Molecular Mass

57.7 kDa

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AA Sequence

MSTNENANTPAARLHRFKNKGKDSTEMRRRRRIEVNVELRKAKKDDQMLKRRNVSS
 FPDDATSPLQENRNN QGTVNWSVDDIVKGINSSNVENQLQATQAARKLLSREKQP
 PIDNIIRAGLIPKFVSFLGRDCSPIQFES AWALTNIASGTSEQTKAVVDGGAIPAFISL
 LASPHAHISEQAVWALGNIAGDGSVFRDLVIKYGAVDPLL ALLAVPEMSSLACGYLR
 NLTWTLSNLCRNKNPAPPIDAVEQILPTLVRLHHDDPEVLADTCWAISYLTG GPNE
 RIGMVVKTGVVPQLVKLLGASELPIVTPALRAIGNIVTGTDEQTQVVIDAGALAVFPSL
 LTNPKTN IQKEATWTMSNITAGRQDQIQVVNHGLVPFLVSVLSKADFKTQKEAVW
 AVTNYTSGGTVEQIVYLVHCG IIEPLMNULLTAKDTKIILVILDAISNIFQAAEKLGETEKL
 SIMIEECGGLDKIEALQNHENESVYKASLS
 LIEKYFSVEEEEEDQNVVPETTSEGYTFQVQDGAPGTFNFTRTRPLEQKLISEEDLAA
 NDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration >50 ug/mL as determined by microplate BCA method.

Preparation Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families Druggable Genome, Stem cell - Pluripotency

Full Length Full L.

GENE INFORMATION

Gene Name [KPNA2 karyopherin subunit alpha 2 \[Homo sapiens \(human\) \]](#)

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Official Symbol	KPNA2
Synonyms	QIP2; RCH1; IPOA1; PTAC58; SRP1alpha; SRP1-alpha
Gene ID	3838
mRNA Refseq	NM_002266.4
Protein Refseq	NP_002257.1
MIM	600685
UniProt ID	P52292

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