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	MSTNENANTPAARLHRFKNKGKDSTEMRRRRIEVNVELRKAKKDDQMLKRRNVSS FPDDATSPLQENRNN QGTVNWSVDDIVKGINSSNVENQLQATQAARKLLSREKQP PIDNIIRAGLIPKFVSFLGRTDCSPIQFES AWALTNIASGTSEQTKAVVDGGAIPAFISL LASPHAHISEQAVWALGNIAGDGSVFRDLVIKYGAVDPLL ALLAVPEMSSLACGYLR NLTWTLSNLCRNKNPAPPIDAVEQILPTLVRLLHHDDPEVLADTCWAISYLTD GPNE RIGMVVKTGVVPQLVKLLGASELPIVTPALRAIGNIVTGTDEQTQVVIDAGALAVFPSL LTNPKTN IQKEATWTMSNITAGRQDQIQQVVNHGLVPFLVSVLSKADFKTQKEAVW AVTNYTSGGTVEQIVYLVHCG IIEPLMNLLTAKDTKIILVILDAISNIFQAAEKLGETEKL SIMIEECGGLDKIEALQNHENESVYKASLS LIEKYFSVEEEEDQNVVPETTSEGYTFQVQDGAPGTFNFTRTRPLEQKLISEEDLAA 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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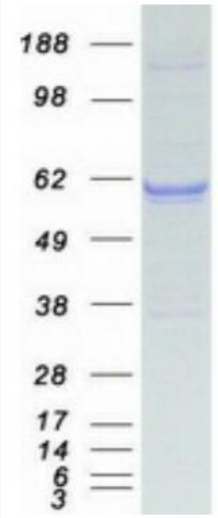
Official Symbol	KPNA2
Synonyms	QIP2; RCH1; IPOA1; PTAC58; SRP1alpha; SRP1-alpha
Gene ID	3838
mRNA Refseq	NM_002266.4
Protein Refseq	NP_002257.1
MIM	600685
UniProt ID	P52292



Coomassie blue staining of purified KPNA2 protein.

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