

Recombinant Human KPNA2 Protein, GST-tagged

Cat. No. KPNA2-4897H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human KPNA2 full-length ORF (AAH05978.1, 1 a.a. - 529 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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 <i>Saccharomyces cerevisiae</i>), 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 [provided by RefSeq]
Molecular Mass	83.93 kDa
AA Sequence	MSTNENANTPAARLHRFKNKGKDSTEMRRRRRIEVNVELRKAKKDDQMLKRRNVSS FPDDATSPLQENRNNQGTVNWSVDDIVKGINSSNVENQLQATQAARKLLSREKQPP

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IDNIIRAGLIPKFVSFLGRTDCSPIQFESAWALTNIASGTSEQTKVVVDGGAIPAFISLL
 ASPHAHISEQAVWALGNIAGDGSVFRDLVIKYGAVDPLLALLAVPDMSSLACGYLRN
 LTWTLSNLCRNKNPAPPIDAVEQILPTLVRLHHDDPEVLADTCWAISYLTGPNERI
 GMVVKTGVVPQLVKLLGASELPVTPALRAIGNIVTGTDEQTQVVIDAGALAVFPSLLT
 NPKTNIQKEATWTMSNITAGRQDQIQVVNHGLVPFLVSVLSKADFKTQKEAVWAV
 TNYTSGGTVEQIVYLVHCGIIEPLMNLLTAKDTKIILVILDAISNIFQAAENLGETEKL
 SIM IEECGGLDKIEALQNHENESVYKASLSLIEKYFSVEEEEDQNVVPETTSEGYTFQVQD
 GAPGTFNF

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.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

KPNA2 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [Homo sapiens]

Official Symbol

KPNA2

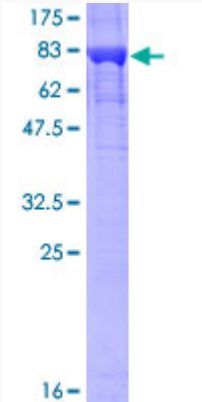
Synonyms

KPNA2; karyopherin alpha 2 (RAG cohort 1, importin alpha 1); RCH1; importin subunit alpha-2; IPOA1; QIP2; SRP1alpha; pendulin; SRP1-alpha; RAG cohort 1; importin alpha 1; importin alpha 2; importin-alpha-P1; RAG cohort protein 1; karyopherin subunit alpha-2;

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Gene ID	3838
mRNA Refseq	NM_002266
Protein Refseq	NP_002257
MIM	600685
UniProt ID	P52292
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue