

Recombinant Human KPNA2, T7 -tagged

Cat. No. KPNA2-29809TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein (Human).(T7 tag at N-terminus).
Species	Human
Source	E.coli
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.
Conjugation	T7
Tissue specificity	Expressed ubiquitously.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: 0.002% Sodium Azide Constituents: 0.1% Triton-X-100, 10mM Tris, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the importin alpha family. Contains 10 ARM repeats. Contains 1 IBB domain.
Full Length	Full L.

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;
Gene ID	3838
mRNA Refseq	NM_002266
Protein Refseq	NP_002257
MIM	600685
Uniprot ID	P52292
Chromosome Location	17q24.2

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Pathway	Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Regulation of cytoplasmic and nuclear SMAD2/3 signaling, organism-specific biosystem; Role of Calcineurin-dependent NFAT signaling in lymphocytes, organism-specific biosystem; Signaling events mediated by TCPTP, organism-specific biosystem;
Function	histone deacetylase binding; nuclear localization sequence binding; protein binding; protein transporter activity;

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