

## 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 *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.

**Conjugation** T7


**Tissue specificity** Expressed ubiquitously.

**Form** Liquid

**Purity** >95% by SDS-PAGE

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

## GENE INFORMATION

<b>Gene Name</b>	KPNA2 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [ Homo sapiens ]
<b>Official Symbol</b>	KPNA2
<b>Synonyms</b>	KPNA2; karyopherin alpha 2 (RAG cohort 1, importin alpha 1); RCH1; importin subunit alpha-2; IPOA1; QIP2; SRP1alpha;
<b>Gene ID</b>	3838
<b>mRNA Refseq</b>	NM_002266
<b>Protein Refseq</b>	NP_002257
<b>MIM</b>	600685
<b>Uniprot ID</b>	P52292
<b>Chromosome Location</b>	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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