

Recombinant Human KPNA1

Cat. No. KPNA1-31462TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SRP1 with a N terminal proprietary tag; predicted MW: 84.92 kDa, inclusive of tag. AAH02374.1, P52294.
Species	Human
Source	Wheat Germ
ProteinLength	538 amino acids
Description	Recombination activating proteins RAG1 and RAG2 regulate and mediate V(D)J recombination, the process by which genes for immunoglobulins and T-cell receptors are generated. Several other ubiquitously expressed proteins are thought to be recruited in the recombination process. Among these are the genes affected in severe combined immune deficiency and genes involved in ds-DNA break repair. The protein encoded by this gene interacts with RAG1 and may play a role in V(D)J recombination. Two transcript variants, one protein-coding and the other not, have been found for this gene.
Molecular Weight	84.920kDa inclusive of tags
Tissue specificity	Expressed ubiquitously.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	<p>MTTPGKENFRLKSYKNKSLNPDEMRRRREEEGLQLRKQKR EEQLFKRRNVATAEE ETEEEVMSDGGFHEAQINMEMAPG GVITSDMIEMIFSKSPEQQLSATQKFRKLLS KEPNPPIDE VISTPGVVARFVEFLKRKENCTLQFESAWVLTNIASGNSL QTRIVIQAG AVPIFIELLSSEFEDVQEQA VWALGNIAGDS TMCRDYVLD CNILPPLLQLFSKQNRLT MTRNAVWALS NLC RGKSPPEFAKVSPCLNVLSWLLFVSDTDVLADACWALS Y LS DGPNDKIQAVIDAGVCRRLVELLMHNDYKVVSPALRAV GNIVTGDDIQTQVILNCSA LQSLHLHLLSSPKESIKKEACW TISNITAGNRAQIQTVIDANIFPALISILQTAEFRTRKEA AWAITNATSGGSAEQIKYLVELGCIKPLCDLLTVMSKIV QVALNGLENILRLGEQEA KRNGTGINPYCALIEEAYGLDK IEFLQSHENQEIQKAFDLIEHYFGTEDEDSSIAPQ VDLN QQQYIFQQCEAPMEGFQL</p>
Sequence Similarities	Belongs to the importin alpha family. Contains 10 ARM repeats. Contains 1 IBB domain.

GENE INFORMATION

Gene Name	KPNA1 karyopherin alpha 1 (importin alpha 5) [Homo sapiens]
Official Symbol	KPNA1
Synonyms	KPNA1; karyopherin alpha 1 (importin alpha 5); importin subunit alpha-1; IPOA5; NPI 1; RCH2; SRP1;
Gene ID	3836
mRNA Refseq	NM_002264

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Protein Refseq	NP_002255
MIM	600686
Uniprot ID	P52294
Chromosome Location	3q21
Pathway	Activation of DNA fragmentation factor, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis induced DNA fragmentation, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem; Class I PI3K signaling events mediated by Akt, organism-specific biosystem;
Function	nuclear localization sequence binding; protein binding; protein transporter activity;

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