

# Recombinant Full Length Human KPNA1 Protein, GST-tagged

**Cat. No.** KPNA1-5792HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human KPNA1 full-length ORF ( AAH02374.1, 1 a.a. - 538 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	538 amino acids
<b>Description</b>	<p>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. [provided by RefSeq]</p>
<b>Molecular Mass</b>	84.92 kDa
<b>AA Sequence</b>	<p>MTTPGKENFRLKSYKNKSLNPDEMRRRREEEGLQLRKQKREEQLFKRRNVATAEE  ETEEEVMSDGGFHEAQINMEMAPGGVITSDMIEMIFSKSPEQQLSATQKFRKLLSK  EPNPPIDEVISTPGVVARFVEFLKRKENCTLQFESAWVLTNIASGNSLQTRIVIQAGAV  PIFIELLSSEFEDVQEQAVWALGNIAGDSTMCRDYVLDCNILPPLLQLFSKQNRLTMT  RNAVWALSNLCRGKSPPEFAKVSPCLNVLSWLLFVSDTDVLADACWALSYSLSGDP</p>

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NDKIQAVIDAGVCRRLVELLMHNDYKVVSPALRAVGNIVTGDDIQTQVILNCSALQSL  
 LHLLSSPKESIKKEACWTISNITAGNRAQIQTVIDANIFPALISILQTAEFRTTRKEAAWAI  
 TNATSGGSAAEQIKYLVELGCIKPLCDLLTVMDSKIVQVALNGLLENILRLGEQEAKRNG  
 TGINPYCALIEEAYGLDKIEFLQSHENQEIQKAFDLIEHYFGTEDEDSSIAPQVDLNQ  
 QQYIFQQCEAPMEGFQL

**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** [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; SRP1-beta; importin alpha 5; importin-alpha-S1; RAG cohort protein 2; nucleoprotein interactor 1; karyopherin subunit alpha-1; recombination activating gene cohort 2; NPI-1;

**Gene ID** [3836](#)

**mRNA Refseq** [NM\\_002264](#)

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<b>Protein Refseq</b>	NP_002255
<b>MIM</b>	600686
<b>UniProt ID</b>	P52294

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