

# Recombinant Human Karyopherin Alpha 2 (RAG cohort 1, importin alpha 1), His-tagged

Cat. No. KPNA2-1389H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human KPNA2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Karyopherin alpha2 (KPNA2) is a member of the karyopherin alpha family. This protein plays a key role in the nuclear import of proteins with a classical nuclear localization signal (NLS). KPNA2 bound in vitro specifically and directly to substrates containing either a simple or bipartite NLS motif. It promoted docking of import substrates to the nuclear envelope and together with recombinant human Ran reconstituted complete nuclear protein import.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT.
<b>Molecular Weight</b>	60.5 kDa(553aa)
<b>Purity</b>	> 90% by SDS - PAGE
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)
<b>Sequences of amino acids</b>	MGSSHHHHHHSSGLVPRGSH MGSHMSTNEN ANTPAARLHR FKNKGDSTE MRRRRIEVNV ELRKAKKDDQMLKRRNVSSF PDDATSPLQE NRNNQGTVNW

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SVDDIVKGIN SSNVENQLQA TQAARKLLSR EKQPPIDNIIRAGLIPKFVS  
 FLGRDTCSPI QFESAWALTN IASGTSEQTK VVVDGGAIPA FISLLASPHA  
 HISEQAVWALGNIAGDGSVF RDLVIKYGAV DPLLALLAVP DMSLACGYL  
 RNLTWTLSNL CRNKNPAPPI DAVEQILPTLVRLHHDDPE VLADTCWAIS  
 YLTDGPNERI GMVVKTGVVP QLVKLLGASE LPIVTPALRA  
 IGNIVTGTDEQTQVVIDAGA LAVFPSLLTN PKTNIQKEAT WTMSNITAGR  
 QDQIQQVVNH GLVPFLVSVL SKADFKTQKEAVWAVTNYTS GGTVEQIVYL  
 VHCIIIEPLM NLLTAKDTKI ILVILDAISN IFQAAENLGE TEKLSIMIEECGLDKIEAL  
 QNHENESVYK ASLSLIEKYF SVEEEEDQNV VPETTSEGYT FQVQDGAPGT FNF

**Storage**

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene Name** [KPNA2 karyopherin alpha 2 \(RAGcohort 1, importin alpha 1\) \[ Homo sapiens \]](#)

**Official Symbol** [KPNA2](#)

**Synonyms**

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

**Gene ID** [3838](#)

**mRNA Refseq** [NM\\_002266](#)

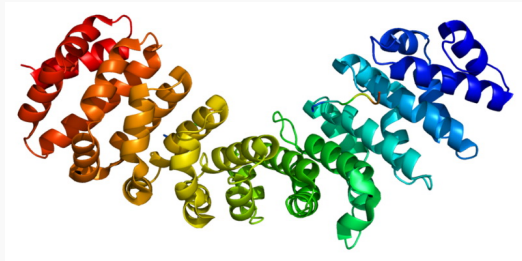
**Protein Refseq** [NP\\_002257](#)

**MIM** [600685](#)

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<b>UniProt ID</b>	<a href="#">P52292</a>
<b>Chromosome Location</b>	17q24.2
<b>Pathway</b>	Influenza A; Regulation of cytoplasmic and nuclear SMAD2/3 signaling; Role of Calcineurin-dependent NFAT signaling in lymphocytes; Signaling events mediated by TCPTP; TNF-alpha/NF-kB Signaling Pathway
<b>Function</b>	histone deacetylase binding; nuclear localization sequence binding; protein binding; protein transporter activity
<b>PDB rendering based on 1ejl.</b>	

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