

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

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

SPECIFICATION

Product Overview	Recombinant humanKPNA2 protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography.
Species	Human
Source	E.coli
Description	Karyopherinalpha2 (KPNA2) is a member of the karyopherin alpha family. This proteinplays a key role in the nuclear import of proteins with a classical nuclearlocalization signal (NLS). KPNA2 bound in vitro specifically and directly tosubstrates containing either a simple or bipartite NLS motif. It promoteddocking of import substrates to the nuclear envelope and together withrecombinant human Ran reconstituted complete nuclear protein import.
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT.
Molecular Weight	60.5 kDa(553aa)
Purity	> 90%by SDS - PAGE
Concentration	1 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHMSTNEN ANTPAARLHR FKNKGKDSTE MRRRRRIEVNV ELRKAKKDDQMLKRRNVSSF PDDATSPLQE NRNNQGTNVW

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SVDDIVKGIN SSNVENQLQA TQAARKLLSR EKQPPIDNIIRAGLIPKFVS
 FLGRDTCSPI QFESAWALTN IASGTSEQTK VVVDGGAIPA FISLLASPHA
 HISEQAVWALGNIAGDGSVF RDLVIKYGAV DPLLALLAVP DMSSLACGYL
 RNLTWTLSNL CRNKNPAPPI DAVEQILPTLVRLHHDDPE VLADTCWAIS
 YLTDGPNERI GMVVKTGVVP QLVKLLGASE LPIVTPALRA
 IGNIVTGTDEQTQVVIDAGA LAVFPSLLTN PKTNIQKEAT WTMSNITAGR
 QDQIQQVVNH GLVPFLVSVL SKADFKTQKEAVWAVTNYTS GGTVEQIVYL
 VHCIIIEPLM NLLTAKDTKI ILVILDAISN IFQAAENLGE TEKLSIMIEECGGLDKIEAL
 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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UniProt ID	P52292
Chromosome Location	17q24.2
Pathway	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
Function	histone deacetylase binding; nuclear localization sequence binding; protein binding; protein transporter activity
PDB rendering based on 1ejl.	