

## Recombinant Full Length Human KPNA1 Protein, C-Flag-tagged

**Cat. No.** KPNA1-1481HFL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human KPNA1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | The transport of molecules between the nucleus and the cytoplasm in eukaryotic cells is mediated by the nuclear pore complex (NPC), which consists of 60-100 proteins. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion while larger molecules are transported by an active process. The protein encoded by this gene belongs to the importin alpha family, and is involved in nuclear protein import. This protein interacts with the recombination activating gene 1 (RAG1) protein and is a putative substrate of the RAG1 ubiquitin ligase. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 60 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MTTPGKENFRLKSYKNKSLNPDEMRRRREEEGLQLRKQKREEQLFKRRNVATAEE<br>ETEEEVMSDGGFHEA QINNMEMAPGGVITSDMIEMIFSKSPEQQLSATQKFRKLLS<br>KEPNPPIDEVISTPGVVARFVEFLKRKEN CTLQFESAWVLTNIASGNSLQTRIVIQAG<br>AVPIFIELLSSEFEDVQEQAVWALGNIAGDSTMYRDYVLDC NILPPLLQLFSKQNRLT                                                                                                                                                                                                                                                                                                                                                                                                     |

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

MTRNAVWALSNLCRGKSPPEFAKVSPCLNVLSWLLFVSDTDVLADACWALSY LS  
 DGPNDKIQAVIDAGVCRRLVELLMHNDYKVVSPALRAVGNIVTGDDIQTQVILNCSAL  
 QSLHLLSSP KESIKKEACWTISNITAGNRAQIQTVIDANIFPALISILQTAEFRTRKEA  
 AWAITNATSGGSAEQIKYLV ELGCIKPLCDLLTVMDSKIVQVALNGLENILRLGEQEA  
 KRNGTGINPYCALIEEAYGLDKIEFLQSHENQ  
 EIYQKAFDLIEHYFGTEDEDSSIAPQVDLNQQQYIFQQCEAPMEGFQLTRTRPLEQK  
 LISEEDLAANDILDYKDDDDKV

|                      |                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>       | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b> | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Full Length</b>   | Full L.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Gene Name</b>       | KPNA1 karyopherin subunit alpha 1 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | KPNA1                                                      |
| <b>Synonyms</b>        | RCH2; SRP1; IPOA5; NPI-1                                   |
| <b>Gene ID</b>         | 3836                                                       |

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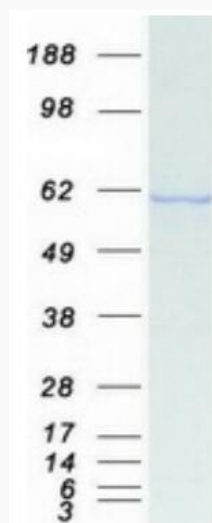
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**mRNA Refseq** [NM\\_002264.4](#)

**Protein Refseq** [NP\\_002255.3](#)

**MIM** [600686](#)

**UniProt ID** [P52294](#)



Coomassie blue staining of purified KPNA1 protein.

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