KPNA2 (Human) Recombinant Protein (Q01)

Catalog # H00003838-Q01 Size 25 ug, 10 ug

Applications



Specification	
Product Description	Human KPNA2 partial ORF (NP_002257, 420 a.a 528 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GIEPLMNLLTAKDTKIILVILDAISNIFQAAENLGETEKLSIMIEECGGLDKIEALQNHENESVYKASLS LIEKYFSVEEEEDQNVVPETTSEGYTFQVQDGAPGTFN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.73
Interspecies Antigen Sequence	Mouse (94); Rat (94)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.



Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — KPNA2	
Entrez GenelD	3838
GeneBank Accession#	NM_002266
Protein Accession#	<u>NP_002257</u>
Gene Name	KPNA2
Gene Alias	IPOA1, QIP2, RCH1, SRP1alpha
Gene Description	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)
Omim ID	600685
Gene Ontology	Hyperlink
Gene Summary	The import of proteins into the nucleus is a process that involves at least 2 steps. The first is an en ergy-independent docking of the protein to the nuclear envelope and the second is an energy-dep endent translocation through the nuclear pore complex. Imported proteins require a nuclear localiz ation sequence (NLS) which generally consists of a short region of basic amino acids or 2 such re gions spaced about 10 amino acids apart. Proteins involved in the first step of nuclear import hav e been identified in different systems. These include the Xenopus protein importin and its yeast h omolog, SRP1 (a suppressor of certain temperature-sensitive mutations of RNA polymerase I in Saccharomyces cerevisiae), which bind to the NLS. KPNA2 protein interacts with the NLSs of DN A helicase Q1 and SV40 T antigen and may be involved in the nuclear transport of proteins. KPN A2 also may play a role in V(D)J recombination [provided by RefSeq
Other Designations	RAG cohort 1 importin alpha 1 importin alpha 2 importin-alpha-P1 karyopherin alpha 2 pendulin

Disease

🖗 Abnova

- Breast Neoplasms
- Genetic Predisposition to Disease
- Ovarian Neoplasms