

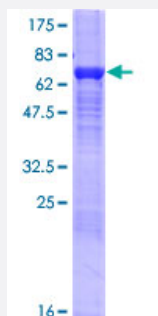
Full-Length

KPNA4 (Human) Recombinant Protein (P01)

Catalog # H00003840-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human KPNA4 full-length ORF (NP_002259.1, 1 a.a. - 521 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MADNEKLDNQRLKNFKNKGRDLETMRQRNEVVVELRKNKRDEHLLKRRNVPHEICEDSDIDG
DYRVQNTSLEAMQNASSDNQGIQLSAVQAARKLLSSDRNPPIDDLIKSGILPILVHCLERDDNPSL
QFEAAWALTNASGTSEQTQAVVQSNAPLFLRLLHSPHQNVCEQAVWALGNIIGDGPQCRDYVI
SLGVVKPLLSFISPSIPITFLRNVTWVMVNLCRHKDPPPPMETIQEILPALCVLIHHTDVNILDVTVWA
LSYLTAGNEQIQMVIDSGMPLVPLLSHQEVKVQTAALRAVGNVTGTDEQTQVVLNCDALSHF
PALLTHPKEKINKEAVWFLSNITAGNQQQVQAVIDANLVPMLHLLDKGDFGTQKEAAWAISNLTISG
RKDQVAYLIQQNVIPFCNLLTVKDAQVQVVDGLSNILKMAEDEAETIGNLIEECGGLEKIEQLQ
NHENEDYKLAYEIIDQFFSSDDIDEDPSLVPEAIQGGTFGFNSSANVPTGEFQF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

84.3

Interspecies Antigen Sequence

Mouse (99); Rat (99)

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-HCl, 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 — KPNA4

Entrez GeneID	3840
GeneBank Accession#	NM_002268.3
Protein Accession#	NP_002259.1
Gene Name	KPNA4
Gene Alias	IPOA3, MGC12217, MGC26703, QIP1, SRP3
Gene Description	karyopherin alpha 4 (importin alpha 3)
Omim ID	602970
Gene Ontology	Hyperlink
Gene Summary	The nuclear import of karyophilic proteins is directed by short amino acid sequences termed nuclear localization signals (NLSs). Karyopherins, or importins, are cytoplasmic proteins that recognize NLSs and dock NLS-containing proteins to the nuclear pore complex. The protein encoded by this gene shares the sequence similarity with <i>Xenopus</i> importin-alpha and <i>Saccharomyces cerevisiae</i> Srp1. This protein is found to interact with the NLSs of DNA helicase Q1 and SV40 T antigen. [provided by RefSeq]
Other Designations	importin alpha 3 importin-alpha-Q1 karyopherin alpha 4

Publication Reference

- [mRNA location and translation rate determine protein targeting to dual destinations.](#)

Alexander N Gasparski, Konstadinos Moissoglou, Sandeep Pallikkuth, Sezen Meydan, Nicholas R Gydosh, Stavroula Mili.

Molecular Cell 2023 Aug; 83(15):2726.

Application: Pull-Down, Human, MDA-MB-231 cells