

Importin subunit alpha-1 (KPNA1) Recombinant Protein | KPNA1 recombinant protein

Recombinant Human Importin subunit alpha-1 (KPNA1), partial

CATALOG #
AAA233504

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

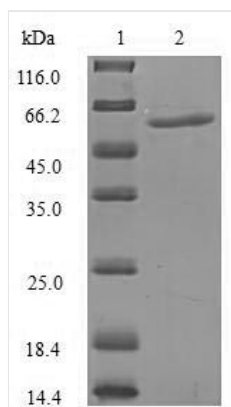
PRODUCT SYNONYMS

Importin subunit alpha-1 (KPNA1); Recombinant Human Importin subunit alpha-1 (KPNA1); partial; KPNA1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	8-538aa; Partial
Sequence	NFRLKSYKNK SLNPDEMRRR REEEGLQLRK QKREEQLFKR RNVATAEEET EEEVMSDGGF HEAQISNMEM APGGVITSDM IEMIFSKSPE QQLSATQKFR KLLSKEPNPP IDEVISTPGV VARFVEFLKR KENCTLQFES AWVLTNIASG NSLQTRIVIQ AGAVPIFIEL LSSEFEDVQE QAVWALGNIA GDSTMCRDYV LDCNLPPLL QLFSKQNRLT MTRNAVWALS NLCRGKSPPP EFAKVSPCLN VLSWLLFVSD TDVLADACWA LSYLSDGPND KIQAVIDAGV CRRLVELLMH NDYKVVSPAL RAVGNIVTGD DIQTQVILNC SALQSLHLL SSPKESIKKE ACWTISNITA GNRAQIQTVI DANIFPALIS ILQTAEFRTR KEAAWAITNA TSGGSAEQIK YLVELGCIKP LCDLLTVMDS KIVQVALNGL ENILRLGEQE AKRNGTGINP YCALIEEAYG LDKIEFLQSH ENQEIQKAF DLIEHYFGTE DEDSSIAPQV DLNQQQYIFQ QCEAPMEGFQ L
Species	Homo sapiens (Human)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for KPNA1 recombinant protein	Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically and directly to substrates containing either a simple or bipartite NLS motif. Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus.
References	Identification of hSRP1 alpha as a functional receptor for nuclear localization sequences.Weis K., Mattaj J.W., Lamond A.I.Science 268:1049-1053(1995)

NCBI AND UNIPROT INFORMATION

NCBI GI #	222144293
NCBI GeneID	3836
NCBI Accession #	NP_002255.3
NCBI GenBank Nucleotide #	NM_002264.3
UniProt Accession #	P52294 ; Q6IBQ9 ; Q9BQ56 ; D3DN93
Molecular Weight	63.5 kDa
NCBI Official Full Name	importin subunit alpha-5
NCBI Official Synonym Full Names	karyopherin subunit alpha 1
NCBI Official Symbol	KPNA1
NCBI Official Synonym Symbols	RCH2; SRP1; IPOA5; NPI-1
NCBI Protein Information	importin subunit alpha-5
UniProt Protein Name	Importin subunit alpha-5
UniProt Gene Name	KPNA1
UniProt Synonym Gene Names	RCH2; NPI-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/kpna1-recombinant-protein-e-coli/233504>