

Recombinant Human KPNA5

Cat. No. KPNA5-29811TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human KPNA5 with N terminal proprietary tag, Predicted MWt 85.4 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	539 amino acids
Description	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 and is probably 120 million daltons in molecular size. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion; larger molecules are transported by an active process. Most nuclear proteins contain short basic amino acid sequences known as nuclear localization signals (NLSs). KPNA5 protein belongs to the importin alpha protein family and is thought to be involved in NLS-dependent protein import into the nucleus.
Molecular Weight	85.400kDa inclusive of tags
Tissue specificity	Testis.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MDAMASPGKDNRYRMKSYKNKALNPQEMRRRREEEGIQLRK QKREEQLFKRRNVY LPRNDESMLESPIQDPDISSTVPIPE EEVTTDMVQMIFSNADQQLTATQKFRKLL SKEPNPPID QVIQKPGVVQRFVKFLERNENCTLQFEAAWALTNIASGTF LHTKVVIE TGAVPIFIKLLNSEHEDVQEQAVALGNIAGD NAECRDFVLNCEILPPLLELLTNSNR LTTTRNAVWALS NL CRGKNPPPNFSKVSPCLNVLSRLLFSSDPDVLADVCWALS YL SDGPNDKIQAVIDSGVCRRLVELLMHNDYKVVSPALRA VGNIVTGDDIQTQVILNCS ALPCLLHLLSSPKESIRKEAC WTVSNITAGNRAQIQAVIDANIFPVLIEILQKAEFRTRK E AAWAITNATSGGTPEQIRYLVALGCIKPLCDLLTVMDSKI VQVALNGLNLRGELQ ESKQNGIGINPYCALIEEAYGLD KIEFLQSHENQEIYQKAFDLIEHYFGVEEDDPSIVP QVDE NQQQFIFQQQEAPMDGFQL
Sequence Similarities	Belongs to the importin alpha family.Contains 10 ARM repeats.Contains 1 IBB domain.

GENE INFORMATION

Gene Name	KPNA5 karyopherin alpha 5 (importin alpha 6) [Homo sapiens]
Official Symbol	KPNA5
Synonyms	KPNA5; karyopherin alpha 5 (importin alpha 6); importin subunit alpha-6; IPOA6; SRP6;
Gene ID	3841
mRNA Refseq	NM_002269

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Protein Refseq	NP_002260
MIM	604545
Uniprot ID	O15131
Chromosome Location	6q22.2
Function	binding; protein binding; protein transporter activity;

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