

Recombinant Human KPNA6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KPNA6-4880H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KPNA6 MS Standard C13 and N15-labeled recombinant protein (NP_036448) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Nucleocytoplasmic transport, a signal- and energy-dependent process, takes place through nuclear pore complexes embedded in the nuclear envelope. The import of proteins containing a nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer of importin alpha and beta subunits also known as karyopherins. Importin alpha binds the NLS-containing cargo in the cytoplasm and importin beta docks the complex at the cytoplasmic side of the nuclear pore complex. In the presence of nucleoside triphosphates and the small GTP binding protein Ran, the complex moves into the nuclear pore complex and the importin subunits dissociate. Importin alpha enters the nucleoplasm with its passenger protein and importin beta remains at the pore. The protein encoded by this gene is a member of the importin alpha family.
Molecular Mass	59.8 kDa
AA Sequence	METMASPGKDNRYRMKSYKNNALNPEEMRRRRREEEGIQLRKQKREQQLFKRRNVEL INEEAAMFDSLLMDSYVSSTTGESVITREMVEMLFSDSDLQLATTQKFRKLLSKEP

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SPPIDEVINTPRVVDRFVEFLKRNENCTLQFEAAWALTNIASGTSQQTKIVIEAGAVPI
 FIELLNSDFEDVQEQAVALGNIAGDSSVCRDYVLNCSILNPLLTLLTKSTRLTMTNR
 AVWALSNLCRGKNPPPEFAKVSPCLPVLSRLLFSSSDSLLADACWALSYSLSGPN
 KIQAVIDSGVCRRLLVELLMHNDYKVASPALRAVGNIVTGDDIQTQVILNCSALPCLLHL
 LSSPKESIRKEACWTISNITAGNRAQIQAVIDANIFPVLIEILQKAEFRTRKEAAWAITN
 ATSGGTPEQIRYLVSLGCIKPLCDLLTVMSKIVQVALNGLNLRGEQEGKRSGSG
 VNPYCGLIEEAYGLDKIEFLQSHENQEYQKAFDLIEHYFGVEDDDSSLAPQVDETQQ
 QFIFQQPEAPMEGFQLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	KPNA6 karyopherin subunit alpha 6 [Homo sapiens (human)]
Official Symbol	KPNA6
Synonyms	KPNA6; karyopherin alpha 6 (importin alpha 7); importin subunit alpha-7; FLJ11249; IPOA7; KPNA7; MGC17918; importin-alpha-S2; importin alpha 7 subunit; karyopherin subunit alpha-6;
Gene ID	23633

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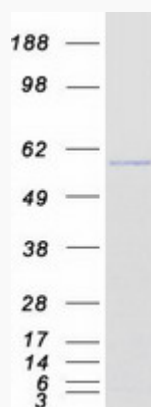
mRNA Refseq [NM_012316](#)

Protein Refseq [NP_036448](#)

MIM [610563](#)

UniProt ID [O60684](#)

SDS-PAGE



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