

Recombinant Human KPNA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KPNA1-1446H Lot. No. (See product label)

SPECIFICATION

Product Overview

KPNA1 MS Standard C13 and N15-labeled recombinant protein (NP_002255) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion while larger molecules are transported by an active process. The protein encoded by this gene belongs to the importin alpha family, and is involved in nuclear protein import. This protein interacts with the recombination activating gene 1 (RAG1) protein and is a putative substrate of the RAG1 ubiquitin ligase. Alternative splicing results in multiple transcript variants.

Molecular Mass

60 kDa

AA Sequence

MTTPGKENFRLKSYKNKSLNPDEMRRRREEEGLQLRKQKREEQLFKRRNVATAEE
 ETEEEVMSDGGFHEAQINMEMAPGGVITSDMIEMIFSKSPEQQLSATQKFRKLLSK
 EPNPPIDEVISTPGVVARFVEFLKRKENCTLQFESAWVLTNIASGNSLQTRIVIQAGAV
 PIFIELLSSEFEDVQEQAVWALGNIAGDSTMYRDYVLDCNILPPLLQLFSKQNRMT
 RNAVWALSNLCRGKSPPEFAKVSPCLNVLSWLLFVSDTDVLADACWALSYSLSGDP

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NDKIQAVIDAGVCRRLVELLMHNDYKVVSPALRAVGNIVTGDDIQTQVILNCSALQSL
 LHLLSSPKESIKKEACWTISNITAGNRAQIQTVIDANIFPALISILQTAEFRTRKEAAWAI
 TNATSGGSAEQIKYLVELGCIKPLCDLLTVMDSKIVQVALNGLLENILRLGEQEAKRNG
 TGINPYCALIEEAYGLDKIEFLQSHENQEIYQKAFDLIEHYFGTEDEDSSIAPQVDLNQ
 QQYIFQQCEAPMEGFQLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 [KPNA1 karyopherin subunit alpha 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [KPNA1](#)

Synonyms KPNA1; karyopherin alpha 1 (importin alpha 5); importin subunit alpha-1; IPOA5; NPI 1; RCH2; SRP1; SRP1-beta; importin alpha 5; importin-alpha-S1; RAG cohort protein 2; nucleoprotein interactor 1; karyopherin subunit alpha-1; recombination activating gene cohort 2; NPI-1;

Gene ID [3836](#)

mRNA Refseq [NM_002264](#)

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Protein Refseq NP_002255

MIM 600686

UniProt ID P52294

SDS-PAGE



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