

Recombinant Human KPNB1 Protein, DDK-tagged

Cat. No. KPNB1-728H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human KPNB1 fused with DDK tag at C-terminal was expressed in Sf9 cells.

Species Human

Source Sf9 Cells

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. Interactions between importin beta and the FG repeats of nucleoporins are essential in translocation through the pore complex. The protein encoded by this gene is a member of the importin beta family. Two transcript variants encoding different isoforms have been found for this gene.

Form 50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol.

Molecular Mass 97 kDa

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Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name [KPNB1 karyopherin \(importin\) beta 1 \[Homo sapiens \]](#)

Official Symbol [KPNB1](#)

Synonyms KPNB1; karyopherin (importin) beta 1; importin subunit beta-1; IMB1; Impnb; importin 1; IPO1; IPOB; MGC2155; MGC2156; MGC2157; NTF97; PTAC97; importin 90; importin-90; nuclear factor p97; importin beta-1 subunit; karyopherin subunit beta-1; pore targeting complex 97 kDa subunit;

Gene ID [3837](#)

mRNA Refseq [NM_002265](#)

Protein Refseq [NP_002256](#)

MIM [602738](#)

UniProt ID [Q14974](#)

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