

Recombinant Full Length Human KPNB1 Protein, GST-tagged

Cat. No. KPNB1-5841HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human KPNB1 full-length ORF (NP_002256.2, 1 a.a. - 876 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	876 amino acids
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. [provided by RefSeq]
Molecular Mass	123.6 kDa

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AA Sequence

MELITILEKTVSPDRLELEAAQKFLERA AVENLPTFLVELSRVLANPGNSQVARVAAG
 LQIKNSLT SKDPDIKAQYQQRWLAI DANARREVKNYVLQTLGTET YRPSSASQCVAG
 IACAEIPVNQWPELIPQLVANVTNP NSTEHMKESTLEAIGYICQDIDPEQLQDKSNEIL
 TAI IQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEATQCPDT
 RVRVAALQNLVKIMSLYYQYMETYMG PALFAITIEAMKSDIDEVALQGIEFWSNVCDE
 EMDLAI EASEAAEQGRPPEHTSKFYAKGALQYLVPI LTQTLTKQDENDDDDDWNPC
 KAAGVCLMLLATCCEDDIVPHVLPFIKEHIKNPDWRYRDAAVMAFGCILEGPEPSQL
 KPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLAPLLQCLIEGLS
 AEPRVASNVCWAFSSLAEEAAYEAADVADDQEEPATYCLSSSFELIVQKLLETTDRPD
 GHQNNLRSSAYESLMEIVKNSAKDCYP AVQKTTLVIMERLQQVLQMESH IQSTSDRI
 QFNDLQSLLCATLQNVLRKVQH QDALQISDVVMASLLRMFQSTAGSGGVQEDALMA
 VSTLVEVLGG EFLKYMEAFKPFLGIGLK NYAEYQVCLAAVGLVGDLCRALQSNIIFC
 DEVMQLLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQ
 VDKSDYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDH
 IAGDEDHTDGVVACAAGLIGDLCTAF GKDVCLKLVEARPMIHELLTEGRRSKTNKAKTL
 ATWATKELRKLKNQA

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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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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