

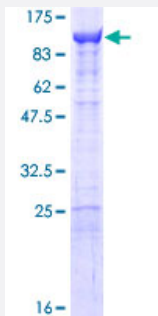
Full-Length

KPNB1 (Human) Recombinant Protein (P01)

Catalog # H00003837-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human KPNB1 full-length ORF (NP_002256.2, 1 a.a. - 876 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MELITILEKTVSPDRLELEAAQKFLERA AVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTS
KDPDIKAQYQQRWLAI DANARREVKNYVLQTLGTETYRPSSASQC VAGIACAEIPVNQWPELIPQL
VANVTNPNSTEHMKESTLEAIGYICQDIDPEQLQDKSNEILTAIIQGM RKEEPSNNVKLAATNALLNS
LEFTKANFDKESERHFIMQVCEATQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAM
KSDIDEVALQGIEFWSNVCDEEMDLAIEASEAAEQGRPPEHTSKFYAKGALQYLPILTQTLTKQD
ENDDDDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIKEHIKNPDWRYRDAAVMAFGCILEGPE
PSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLAPLLQCLIEGLSAEPR
VASNVCWAFSSLAEAA YEADVADDQEEPATYCLSSSFELVQK LLETTDRPDGHQNNLRSSAY
ESLMEIVKNSAKDCYPAVQKTTLVIMERLQQVLQMESH IQSTSDRIQFNDLQSLLCATLQNVLRKV
QHQDALQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLK
NYAEYQVCLA AVGLVGDLCRALQSNIPFCDEVMQLLLEN LGNENVHRSVKPQILSVFGDIALAIGG
EFKKYLEVVNLTLQQASQAQVDKSDYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLV
QPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDLCTAFGKDV LKLVEARPMIHELLTEGRRSKTNK
AKLATWATKELRKLKNQA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

123.6

Interspecies Antigen Sequence

Mouse (99)

Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — KPNB1

Entrez GeneID	3837
GeneBank Accession#	NM_002265.4
Protein Accession#	NP_002256.2
Gene Name	KPNB1
Gene Alias	IMB1, IPO1, IPOB, Impnb, MGC2155, MGC2156, MGC2157, NTF97
Gene Description	karyopherin (importin) beta 1
Omim ID	602738
Gene Ontology	Hyperlink

Gene Summary

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]

Other Designations

importin 1|importin 90|importin beta-1 subunit|karyopherin beta 1|nuclear factor p97

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Chromosome Deletion](#)