

## Recombinant Human KPNB1 Protein, GST-tagged

Cat. No. KPNB1-4891H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human KPNB1 full-length ORF ( NP_002256.2, 1 a.a. - 876 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	<p>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]</p>
<b>Molecular Mass</b>	123.6 kDa
<b>AA Sequence</b>	MELITILEKTVSPDRLELEAAQKFLERAAVENLPTFLVELSRVLANPGNSQVARVAAG

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LQIKNSLTSKDPDIKAQYQQRWLAIANARREVKNYVLQTLGTETYRPSSASQCVAG  
 IACAEIPVNVQWPELIPQLVANVTNPNSTEHEMKESTLEAIGYICQDIDPEQLQDKSNEIL  
 TAIQGMRKEEPSNNVLAATNALLNSLEFTKANFDKESERHFIMQVVCEATQCPDT  
 RVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAMKSDIDEVALQGIEFWSNVUDE  
 EMDLAI EASEAAEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDDWNPC  
 KAAGVCLMLLATCCEDDIVPHVLPFIKEHIKNPDWRYRDAAVMAFGCILEGPEPSQL  
 KPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLAPLLQCLIEGLS  
 AEPRVASNVCFWAFSSLAEEAAYEAADVADDQEEPATYCLSSSFELIVQKLETTDRPD  
 GHQNNLRSSAYESLMEIVKNSAKDCYPAVQKTTLVIMERLQQVLQMESHQSTSDRI  
 QFNDLQSLLCATLQNVLRKVQHQDALQISDVVMASLLRMFQSTAGSGGVQEDALMA  
 VSTLVEVLGGEFKLYMEAFKPFLGIGLKNYAEYQVCLAAVGLVGDLCRALQSNIIFPC  
 DEVMQLLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQ  
 VDKSDYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDH  
 IAGDEDHTDGVVACAAGLIGDLCTAFGKDVCLKVEARPMIHELLTEGRRSKTNKAKTL  
 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

**Gene Name**

KPNB1 karyopherin (importin) beta 1 [ Homo sapiens ]

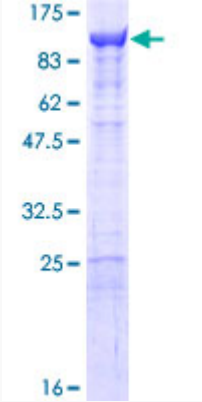
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<b>Official Symbol</b>	KPNB1
<b>Synonyms</b>	KPNB1; karyopherin (importin) beta 1; importin subunit beta-1; IMB1; Impnb; importin 1; IPO1; IPOB; MGC2155; MGC2156; MGC2157; NTF97; PTAC97; importin 90; importin-90; nuclear factor p97; importin beta-1 subunit; karyopherin subunit beta-1; pore targeting complex 97 kDa subunit;
<b>Gene ID</b>	3837
<b>mRNA Refseq</b>	NM_002265
<b>Protein Refseq</b>	NP_002256
<b>MIM</b>	602738
<b>UniProt ID</b>	Q14974

**Quality Control Testing**



12.5% SDS-PAGE Stained with Coomassie Blue