

Recombinant Human Karyopherin (importin) Beta 1, His-tagged

Cat. No. KPNB1-1316H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KPNB1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-876 aa
Description	KPNB1 is a member of the importin beta family. This protein is involved in nuclear protein import, either by associating itself with an adapter protein (for example, importin-alpha subunit which binds to nuclear localization signals (NLS) in cargo substrates), or by acting autonomously as a nuclear transport receptor (serves as NLS receptor, docking of the importin/substrate complex to the nuclear pore complex).
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 30% glycerol, 0.1 NaCl.
Molecular Weight	99.6 kDa (899 aa)
Purity	> 85 % by SDS-PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)

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Sequences of amino acids

MGSSHHHHHH SSGLVPRGSH MGSMELITIL EKTVPDRLE LEAAQKFLER
 AAVENLPTFL VELSRVLANP GNSQVARVAA GLQIKNSLTS KDPDIKAQYQ
 QRWLAIANA RREVKNYVLQ TLGTETYRPS SASQCVAGIA CAEIPVNQWP
 ELIPQLVANV TNPNSTEHMK ESTLEAIGYI CQDIDPEQLQ DKSNEILTAI
 IQGMRKEEPS NNVKLAATNA LLNSLEFTKA NFDKESERHF IMQVVCEATQ
 CPDTRVRVAA LQNLVKIMSL YYQYMETYMG PALFAITIEA MKSDIDEVAL
 QGIEFWSNVC DEEMDLAIEA SEAAEQGRPP EHTSKFYAKG ALQYLVPILT
 QTLTKQDEND DDDDWNPCKA AGVCLMLLAT CCEDDIVPHV LPFIKEHIKN
 PDWRYRDAAV MAFGCILEGP EPSQLKPLVI QAMPTLIELM KDPSVVVRDT
 AAWTVGRICE LLPEAAINDV YLAPLLQCLI EGLSAEPRVA SNVCWAFSSL
 AEAAYEAADV ADDQEEPATY CLSSSFELIV QKLLETTDRP DGHQNNLRSS
 AYESLMEIVK NSAKDCYPAV QKTTLVIMER LQQVLQMESH IQSTSDRIQF
 NDLQSLLCAT LQNVLRKVQH QDALQISDVV MASLLRMFQS TAGSGGVQED
 ALMAVSTLVE VLGGEFLKYM EAFKPFLGIG LKNYAEYQVC LAAVGLVGD
 CRALQSNIP FCDEVMLLLL ENLGNENVHR SVKPQILSVF GDIALAIGGE
 FKKYLEVVLN TLQQASQAQV DKSDYDMVDY LNELRESCLE AYTGIVQGLK
 GDQENVHPDV MLVQPRVEFI LSFIDHIAGD EDHTDGVVAC AAGLIGDLCT
 AFGKDVLLKV EARPMIHELL TEGRRSKTNK AKTLATWATK ELRKLKNQA

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Activation of DNA fragmentation factor; Apoptosis; Apoptosis induced DNA fragmentation; Apoptotic execution phase; HIV Infection; Host Interactions of HIV factors; Influenza Infection; Influenza Life Cycle; Interactions of Rev with host cellular proteins; Nuclear import of Rev protein; RNA transport; RNA transport; Role of Calcineurin-dependent NFAT signaling in lymphocytes; Signaling events mediated by TCPTP; TGF-beta Receptor Signaling Pathway

GENE INFORMATION

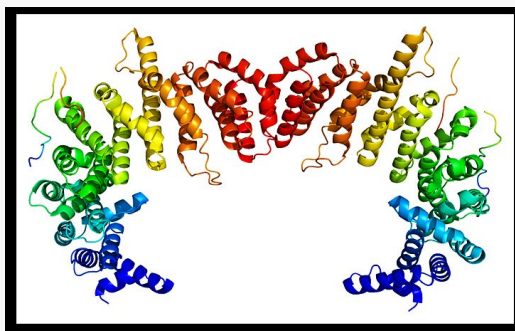
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Gene Name	KPNB1 karyopherin (importin) beta 1 [Homo sapiens]
Official Symbol	KPNB1
Synonyms	KPNB1; karyopherin (importin) beta 1; IMB1; IPO1; IPOB; Impnb; NTF97; MGC2155; MGC2156; MGC2157; karyopherin beta 1; importin 1; importin 90; nuclear factor p97; importin beta-1 subunit; Importin-90; Karyopherin subunit beta-1; Nuclear factor P97; karyopherin (importin) beta 1
Gene ID	3837
mRNA Refseq	NM_002265
Protein Refseq	NP_002256
MIM	602738
UniProt ID	Q14974
Chromosome Location	17q21.32
Function	nuclear localization sequence binding; protein binding; protein domain specific binding; protein transporter activity; zinc ion binding

PDB rendering based
on 1f59.



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