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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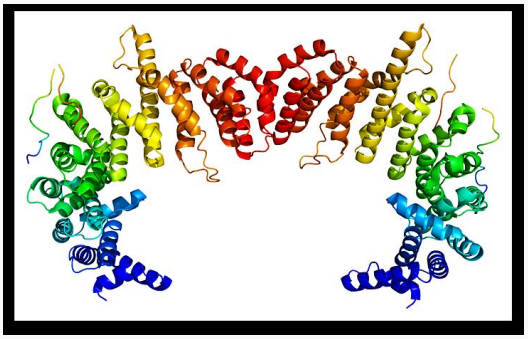
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMELITIL EKTVSPDRLE LEAAQKFLER AAVENLPTFL VELSRVLANP GNSQVARVAA GLQIKNSLTS KDPDIKAQYQ QRWLAIDANA RREVKNYVLQ TLGTETYRPS SASQCVAGIA CAEIPVNQWP ELIPQLVANV TNPNSTEHMK ESTLEAIGYI CQDIDPEQLQ DKSNEILTAI IQGMRKEEPS NNVKLAATNA LLNSLEFTKA NFDKESERHF IMQVVCEATQ CPDTRVRVAA 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 LAAVGLVGDL CRALQSNIIP FCDEVMQLLL ENLGNENVHR SVKPQILSVF GDIALAIGGE FKKYLEVVLN TLQQASQAQV DKSDYDMVDY LNELRESCLE AYTGIVQGLK GDQENVHPDV MLVQPRVEFI LSFIDHIAGD EDHTDGVVAC AAGLIGDLCT AFGKDVLKLV 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

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PDB rendering based on 1f59.	

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