abcam

Product datasheet

Recombinant Human KPNB1 protein ab116172

1 图像

描述

产品名称	重组人KPNB1蛋白
纯度	> 85 % SDS-PAGE. ab116172 is purified using conventional chromatography techniques.
表达系统	Escherichia coli
Accession	**Q14974**
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MGSSHHHHHHSSGLVPRGSHMGSMELITIL 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

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FKKYLEVVLN TLQQASQAQV DKSDYDMVDY
LNELRESCLE AYTGIVQGLK GDQENVHPDV
MLVQPRVEFI LSFIDHIAGD EDHTDGVVAC
AAGLIGDLCT AFGKDVLKLV EARPMIHELL
TEGRRSKTNK AKTLATWATK ELRKLKNQA
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预测分子量	100 kDa including tags
氨基酸	1 to 876
标签	His tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab116172** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE
形式	Liquid
补充说明	Previously labelled as NTF97/Importin beta.

制备和贮存

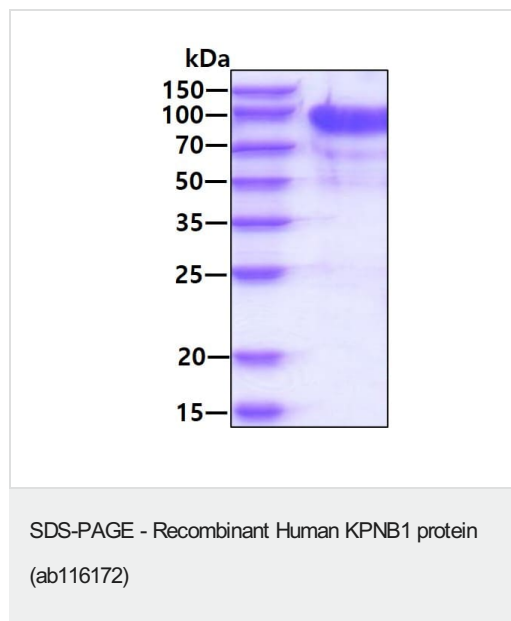|	
稳定性和存储	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.02% DTT, 0.32% Tris HCl, 30% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

常规信息

功能	Functions in nuclear protein import, either in association with an adapter protein, like an importin-alpha subunit, which binds to nuclear localization signals (NLS) in cargo substrates, or by acting as autonomous nuclear transport receptor. Acting autonomously, serves itself as NLS receptor. Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In association with IPO7 mediates the nuclear import of H1 histone. In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones. In case of HIV-1 infection, binds and mediates the nuclear import of HIV-1 Rev. Imports PRKCI into the nucleus.
序列相似性	Belongs to the importin beta family. Contains 8 HEAT repeats. Contains 1 importin N-terminal domain.
细胞定位	Cytoplasm. Nucleus envelope.

图片

15% SDS-PAGE showing ab116172 at approximately 99.6kDa (3µg).

SDS-PAGE - Recombinant Human KPNB1 protein (ab116172)

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