

Recombinant Human KPNA4 protein ab114626

1 图像

描述	
产品名称	重组人KPNA4蛋白
纯度	>= 80 % Purified via GST Tag. Glutathione Sepharose
表达系统	Wheat germ
Accession	<u>O00629</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MADNEKLDNQRLKNFKNKGRDLETMRRQRNEVVVELRKNKRD EHLLKRRN VPHEDICEDSDIDGDYRVQNTSLEAIVQNASSDNQGIQLSAV QAARKLLS SDRNPPIDDLIKSGILPILVHCLERDDNPSLQFEAAWALTNI ASGTSEQT QAVVQSNAPVPLFLRLLHSPHQNVCEQAVWALGNIIGDGPQCR DYVISLGV VKPLLSFISPSIPITFLRNVTWVMVNLCRHKDPPPPMETIQE ILPALCVL IHHTDVNILVDTVWALSYLTDAGNEQIQMVIDSGIVPHLVPL LSHQEVKV QTAALRAVGNIIVTGTDEQTQVVLNCDALSHFPALLTHPKEKI NKEAVWFL SNITAGNQQQVQAVIDANLVPMIIHLDDKGDFGTQKEAAWAI SNLTISGR KDQVAYLIQQNVIPPCNLLTVKDAQVVQVVLGDGLSNILKMA EDEAETIG NLIEECGGLEKIEQLQNHENEDIYKLAYEIIDQFFSSDDIDE DPSLVPEA IQGGTFGFNSSANVPTEGFQF
预测分子量	83 kDa including tags
氨基酸	1 to 521
标签	GST tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab114626** in the following tested applications.

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

应用	ELISA
	SDS-PAGE
	Western blot

形式	Liquid
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制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
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常规信息

功能	Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically and directly to substrates containing either a simple or bipartite NLS motif. 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. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.
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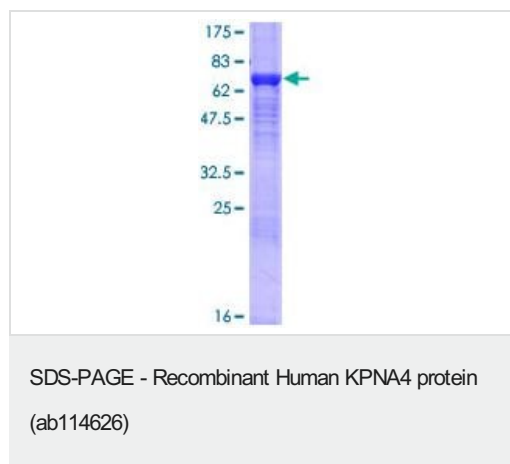
组织特异性	Highly expressed in testis, ovary, small intestine, heart, skeletal muscle, lung and pancreas, but barely detectable in kidney, thymus, colon and peripheral blood leukocytes.
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序列相似性	Belongs to the importin alpha family. Contains 10 ARM repeats. Contains 1 IBB domain.
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结构域	Consists of an N-terminal hydrophilic region, a hydrophobic central region composed of 10 repeats, and a short hydrophilic C-terminus. The N-terminal hydrophilic region contains the importin beta binding domain (IBB domain), which is sufficient for binding importin beta and essential for nuclear protein import. The IBB domain is thought to act as an intrasteric autoregulatory sequence by interacting with the internal autoinhibitory NLS. Binding of KPNB1 probably overlaps the internal NLS and contributes to a high affinity for cytoplasmic NLS-containing cargo substrates. After dissociation of the importin/substrate complex in the nucleus the internal autoinhibitory NLS contributes to a low affinity for nuclear NLS-containing proteins. The major and minor NLS binding sites are mainly involved in recognition of simple or bipartite NLS motifs. Structurally located within in a helical surface groove they contain several conserved Trp and Asn residues of the corresponding third helices (H3) of ARM repeats which mainly contribute to binding.
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细胞定位	Cytoplasm. Nucleus.
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图片



ab114626 analysed by 12.5% SDS-PAGE and stained with Coomassie Blue.

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