

Datasheet for ABIN7562304
KPNA6 Protein (AA 1-536) (His tag)



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Overview

Quantity:	1 mg
Target:	KPNA6
Protein Characteristics:	AA 1-536
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KPNA6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Kpna6 Protein expressed in mammalian cells.
Sequence:	<p>METMASPGKD NYRMKSYKNN ALNPEEMRRR REEEGIQLRK QKREQQLFKR RNVELINEEA AMFDSLMLDS YVSSTTGESV ITREMVEMLF SDDSDLQLAT TQKFRKLLSK EPSPPIDEVI NTPGVVDRFV EFLKRNENCT LQFEAAWALT NIASGTSQQT KIVIEAGAVP IFIELLNDF EDVQEQAVWA LGNIAGDSSL CRDYVLNCSI LNPLLLTK STRLTMTRNA VWALSNLCRG KNPPPEFAKV SPCLPVLRL LFSSDSDLLA DACWALSYS DGPNEKIQAV IDSGVCRRLV ELLMHNDYKV ASPALRAVGN IVTGDDIQTQ VILNCSALPC LLHLLSSSKE SIRKEACWTI SNITAGNRAQ IQAVIDANIF PVLIEILQKA EFRTRKEAAW AITNATSGGT PEQIRYLVSL GCIKPLCDLL TVMDSKIVQV ALNGLNLR LGEQESKRSG SGVNPYCGLI EEAYGLDKIE FLQSHENQEI YQKAFDLIEH YFGVEDDDSS LAPQVDETQQ QFIFQQPEAP MEGFQL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Product Details

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: KPNA6

Alternative Name: Kpna6 ([KPNA6 Products](#))

Background: Importin subunit alpha-7 (Importin alpha-S2) (Karyopherin subunit alpha-6),FUNCTION: 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.

Target Details

Molecular Weight:	60.0 kDa
UniProt:	O35345
Pathways:	Protein targeting to Nucleus

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months