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Datasheet for ABIN3131514 KPNA4 Protein (AA 2-521) (His tag)

Image



Overview

Quantity:	1 mg
Target:	KPNA4
Protein Characteristics:	AA 2-521
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KPNA4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

	QAVIDANLVP MIIHLLDKGD FGTQKEAAWA ISNLTISGRK DQVAYLIQQN VIPPFCNLLT VKDAQVVQVV LDGLSNILKM AEDQAETIAN LIEECGGLEK IEQLQNHENE DIYKLAYEII
	QAVIDANLVP MIIHLLDKGD FGTQKEAAWA ISNLTISGRK DQVAYLIQQN VIPPFCNLLT
	TAALRAVGNI VTGTDEQTQV VLNCDALSHF PALLTHPKEK INKEAVWFLS NITAGNQQQV
	EILPALCVLI HHTDVNILVD TVWALSYLTD AGNEQIQMVI DSGIVPHLVP LLSHQEVKVQ
	GNIIGDGPQC RDYVISLGVV KPLLSFISPS IPITFLRNVT WVMVNLCRHK DPPPPMETIQ
	CLERDDNPSL QFEAAWALTN IASGTSEQTQ AVVQSNAVPL FLRLLHSPHQ NVCEQAVWAL
	IDGDYRVQNT SLEAIVQNAS SDNQGIQLSA VQAARKLLSS DRNPPIDDLI KSGILPILVH
Sequence:	ADNEKLDNQR LKNFKNKGRD LETMRRQRNE VVVELRKNKR DEHLLKRRNV PQEDICEDSD

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 Characteristics: Made in Germany - from design to production - by highly experienced protein expert Mouse Kpna4 Protein (raised in Insect Cells) purified by multi-step, protein-specific to ensure crystallization grade. 	
 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 orde	er. Our
experts in the lab will ensure that you receive a correctly folded protein.	
The big advantage of ordering our made-to-order proteins in comparison to ordering c	ustom
made proteins from other companies is that there is no financial obligation in case the cannot be expressed or purified.	e protein
In the unlikely event that the protein cannot be expressed or purified we do not charge	anything
(other companies might charge you for any performed steps in the expression process	, -
custom-made proteins, e.g. fees might apply for the expression plasmid, the first expre	
experiments or purification optimization).	
When you order this made-to-order protein you will only pay upon receival of the corre	ctlv
folded protein. With no financial risk on your end you can rest assured that our experie	
protein experts will do everything to make sure that you receive the protein you ordere	
The concentration of our recombinant proteins is measured using the absorbance at 2	
The protein's absorbance will be measured in several dilutions and is measured agains	
specific reference buffer.	
The concentration of the protein is calculated using its specific absorption coefficient.	We use
the Expasy's protparam tool to determine the absorption coefficient of each protein.	
Purification: Two step purification of proteins expressed in baculovirus infected SF9 insect cells:	
 In a first purification step, the protein is purified from the cleared cell lysate using th different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Elua fractions are analyzed by SDS-PAGE. 	ite
 Protein containing fractions of the best purification are subjected to second purification through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE Western blot. 	•
Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot	
Sterility: 0.22 µm filtered	
Endotoxin Level: Protein is endotoxin free.	
Grade: Crystallography grade	

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Target Details

Target:	KPNA4	
Alternative Name:	Kpna4 (KPNA4 Products)	
Background:	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.	
Molecular Weight:	58.7 kDa Including tag.	
UniProt:	035343	
Pathways:	Protein targeting to Nucleus	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	

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 Storage Comment:
 Store at -80°C.

 Expiry Date:
 Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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