

Datasheet for ABIN3093211 IPO13 Protein (AA 1-963) (Strep Tag)



Overview

Quantity:	1 mg
Target:	IP013
Protein Characteristics:	AA 1-963
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IP013 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MERREEQPGA AGAGAAPALD FTVENVEKAL HQLYYDPNIE NKNLAQKWLM QAQVSPQAWH
	FSWQLLQPDK VPEIQYFGAS ALHIKISRYW SDIPTDQYES LKAQLFTQIT RFASGSKIVL
	TRLCVALASL ALSMMPDAWP CAVADMVRLF QAEDSPVDGQ GRCLALLELL TVLPEEFQTS
	RLPQYRKGLV RTSLAVECGA VFPLLEQLLQ QPSSPSCVRQ KVLKCFSSWV QLEVPLQDCE
	ALIQAAFAAL QDSELFDSSV EAIVNAISQP DAQRYVNTLL KLIPLVLGLQ EQLRQAVQNG
	DMETSHGICR IAVALGENHS RALLDQVEHW QSFLALVNMI MFCTGIPGHY PVNETTSSLT
	LTFWYTLQDD ILSFEAEKQA VYQQVYRPVY FQLVDVLLHK AQFPSDEEYG FWSSDEKEQF
	RIYRVDISDT LMYVYEMLGA ELLSNLYDKL GRLLTSSEEP YSWQHTEALL YGFQSIAETI
	DVNYSDVVPG LIGLIPRISI SNVQLADTVM FTIGALSEWL ADHPVMINSV LPLVLHALGN
	PELSVSSVST LKKICRECKY DLPPYAANIV AVSQDVLMKQ IHKTSQCMWL MQALGFLLSA
	LQVEEILKNL HSLISPYIQQ LEKLAEEIPN PSNKLAIVHI LGLLSNLFTT LDISHHEDDH EGPELRKLPV
	PQGPNPVVVV LQQVFQLIQK VLSKWLNDAQ VVEAVCAIFE KSVKTLLDDF APMVPQLCEM

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3093211 | 07/26/2024 | Copyright antibodies-online. All rights reserved. LGRMYSTIPQ ASALDLTRQL VHIFAHEPAH FPPIEALFLL VTSVTLTLFQ QGPRDHPDIV DSFMQLLAQA LKRKPDLFLC ERLDVKAVFQ CAVLALKFPE APTVKASCGF FTELLPRCGE VESVGKVVQE DGRMLLIAVL EAIGGQASRS LMDCFADILF ALNKHCFSLL SMWIKEALQP PGFPSARLSP EQKDTFSQQI LRERVNKRRV KEMVKEFTLL CRGLHGTDYT ADY Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3093211 | 07/26/2024 | Copyright antibodies-online. All rights reserved. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag
	capture material. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Target Details	
Target:	IP013
Alternative Name:	IP013 (IP013 Products)
Background:	Importin-13 (Imp13) (Karyopherin-13) (Kap13) (Ran-binding protein 13) (RanBP13),FUNCTION:
	Functions in nuclear protein import as nuclear transport receptor. Serves as receptor for
	nuclear localization signals (NLS) in cargo substrates. Is thought to mediate docking of the
	importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin
	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 the importin, the
	importin/substrate complex dissociates and importin is re-exported from the nucleus to the
	cytoplasm where GTP hydrolysis releases Ran. 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 (By similarity). Mediates the nuclear import of UBC9, the
	RBM8A/MAGOH complex, PAX6 and probably other members of the paired homeobox family.
	Also mediates nuclear export of eIF-1A, and the cytoplasmic release of eIF-1A is triggered by
	the loading of import substrates onto IPO13. {ECO:0000250, ECO:0000269 PubMed:11447110,
	ECO:0000269 PubMed:15143176}.
Molecular Weight:	108.2 kDa
UniProt:	094829
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Nuclear Hormone Receptor Binding,
	Protein targeting to Nucleus

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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 guarantee though.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Evoir Doto:	Linipoited (if starsd properly)

Expiry Date: Unlimited (if stored properly)