antibodies

Datasheet for ABIN3093230 Importin 8 Protein (IPO8) (AA 1-1037) (Strep Tag)





Overview

Quantity:	1 mg
Target:	Importin 8 (IPO8)
Protein Characteristics:	AA 1-1037
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Importin 8 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MDLNRIIQAL KGTIDPKLRI AAENELNQSY KIINFAPSLL RIIVSDHVEF PVRQAAAIYL
	KNMVTQYWPD REPPPGEAIF PFNIHENDRQ QIRDNIVEGI IRSPDLVRVQ LTMCLRAIIK
	HDFPGHWPGV VDKIDYYLQS QSSASWLGSL LCLYQLVKTY EYKKAEEREP LIIAMQIFLP
	RIQQQIVQLL PDSSYYSVLL QKQILKIFYA LVQYALPLQL VNNQTMTTWM EIFRTIIDRT
	VPPETLHIDE DDRPELVWWK CKKWALHIVA RLFERYGSPG NVTKEYFEFS EFFLKTYAVG
	IQQVLLKILD QYRQKEYVAP RVLQQAFNYL NQGVVHSITW KQMKPHIQNI SEDVIFSVMC
	YKDEDEELWQ EDPYEYIRMK FDIFEDYASP TTAAQTLLYT AAKKRKEVLP KMMAFCYQIL
	TDPNFDPRKK DGALHVIGSL AEILLKKSLF KDQMELFLQN HVFPLLLSNL GYLRARSCWV
	LHAFSSLKFH NELNLRNAVE LAKKSLIEDK EMPVKVEAAL ALQSLISNQI QAKEYMKPHV
	RPIMQELLHI VRETENDDVT NVIQKMICEY SQEVASIAVD MTQHLAEIFG KVLQSDEYEE
	VEDKTVMAMG ILHTIDTILT VVEDHKEITQ QLENICLRII DLVLQKHVIE FYEEILSLAY SLTCHSISPQ
	MWQLLGILYE VFQQDCFEYF TDMMPLLHNY VTIDTDTLLS NAKHLEILFT MCRKVLCGDA

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 1/5 | Product datasheet for ABIN3093230 | 04/17/2024 | Copyright antibodies-online. All rights reserved. GEDAECHAAK LLEVIILQCK GRGIDQCIPL FVQLVLERLT RGVKTSELRT MCLQVAIAAL YYNPDLLLHT LERIQLPHNP GPITVQFINQ WMNDTDCFLG HHDRKMCIIG LSILLELQNR PPAVDAVVGQ IVPSILFLFL GLKQVCATRQ LVNREDRSKA EKADMEENEE ISSDEEETNV TAQAMQSNNG RGEDEEEEDD DWDEEVLEET ALEGFSTPLD LDNSVDEYQF FTQALITVQS RDAAWYQLLM APLSEDQRTA LQEVYTLAEH RRTVAEAKKK IEQQGGFTFE NKGVLSAFNF GTVPSNN 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.

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	 The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. 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®):
	 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)
Grade:	Crystallography grade

Target Details

Target:	Importin 8 (IPO8)
Alternative Name:	IP08 (IP08 Products)
Background:	Importin-8 (Imp8) (Ran-binding protein 8) (RanBP8),FUNCTION: Involved in nuclear protein
	import, either by acting as autonomous nuclear transport receptor or as an adapter-like proteir
	in association with the importin-beta subunit KPNB1. Acting autonomously, may serve as
	receptor for nuclear localization signals (NLS) and promote translocation of import substrates
	through the nuclear pore complex (NPC) by an energy requiring, Ran-dependent mechanism. A
	the nucleoplasmic side of the NPC, Ran binds to 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 (PubMed:9214382). In vitro mediates the nuclear import of the signal recognition
	particle protein SRP19 (PubMed:11682607). May also be involved in cytoplasm-to-nucleus
	shuttling of a broad spectrum of other cargos, including Argonaute-microRNAs complexes, the
	JUN protein, RELA/NF-kappa-B p65 subunit, the translation initiation factor EIF4E and a set of
	receptor-activated mothers against decapentaplegic homolog (SMAD) transcription factors that
	play a critical role downstream of the large family of transforming growth factor beta and bone
	morphogenetic protein (BMP) cytokines (Probable). {ECO:0000269 PubMed:11682607,

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Target Details	
	ECO:0000269 PubMed:9214382, ECO:0000305 PubMed:34010604}.
Molecular Weight:	119.9 kDa
UniProt:	015397
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.
Expiry Date:	Unlimited (if stored properly)

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

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