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Datasheet for ABIN3096410 XPO4 Protein (AA 1-1151) (Strep Tag)



I Image



Quantity:	1 mg
Target:	XPO4
Protein Characteristics:	AA 1-1151
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This XPO4 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MMAAALGPPE VIAQLENAAK VLMAPPSMVN NEQRQHAEHI FLSFRKSKSP FAVCKHILET
	SKVDYVLFQA ATAIMEAVVR EWILLEKGSI ESLRTFLLTY VLQRPNLQKY VREQILLAVA
	VIVKRGSLDK SIDCKSIFHE VSQLISSGNP TVQTLACSIL TALLSEFSSS SKTSNIGLSM
	EFHGNCKRVF QEEDLRQIFM LTVEVLQEFS RRENLNAQMS SVFQRYLALA NQVLSWNFLP
	PNLGRHYIAM FESSQNVLLK PTESWRETLL DSRVMELFFT VHRKIREDSD MAQDSLQCLA
	QLASLHGPIF PDEGSQVDYL AHFIEGLLNT INGIEIEDSE AVGISSIISN LITVFPRNVL TAIPSELFSS
	FVNCLTHLTC SFGRSAALEE VLDKDDMVYM EAYDKLLESW LTLVQDDKHF HKGFFTQHAV
	QVFNSYIQCH LAAPDGTRNL TANGVASREE EEISELQEDD RDQFSDQLAS VGMLGRIAAE
	HCIPLLTSLL EERVTRLHGQ LQRHQQQLLA SPGSSTVDNK MLDDLYEDIH WLILVTGYLL
	ADDTQGETPL IPPEIMEYSI KHSSEVDINT TLQILGSPGE KASSIPGYNR TDSVIRLLSA
	ILRVSEVESR AIRADLTHLL SPQMGKDIVW FLKRWAKTYL LVDEKLYDQI SLPFSTAFGA
	DTEGSQWIIG YLLQKVISNL SVWSSEQDLA NDTVQLLVTL VERRERANLV IQCENWWNLA

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 ABIN3096410 | 04/16/2024 | Copyright antibodies-online. All rights reserved. KQFASRSPPL NFLSSPVQRT LMKALVLGGF AHMDTETKQQ YWTEVLQPLQ QRFLRVINQE NFQQMCQQEE VKQEITATLE ALCGIAEATQ IDNVAILFNF LMDFLTNCIG LMEVYKNTPE TVNLIIEVFV EVAHKQICYL GESKAMNLYE ACLTLLQVYS KNNLGRQRID VTAEEEQYQD LLLIMELLTN LLSKEFIDFS DTDEVFRGHE PGQAANRSVS AADVVLYGVN LILPLMSQDL LKFPTLCNQY YKLITFICEI FPEKIPQLPE DLFKSLMYSL ELGMTSMSSE VCQLCLEALT PLAEQCAKAQ ETDSPLFLAT RHFLKLVFDM LVLQKHNTEM TTAAGEAFYT LVCLHQAEYS ELVETLLSSQ QDPVIYQRLA DAFNKLTASS TPPTLDRKQK MAFLKSLEEF MANVGGLLCV K 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:

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	 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. 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:	XP04
Alternative Name:	XP04 (XP04 Products)
Background:	Exportin-4 (Exp4),FUNCTION: Mediates the nuclear export of proteins (cargos), such as EIF5A,
	SMAD3 and isoform M2 of PKM (PKM2) (PubMed:10944119, PubMed:16449645,
	PubMed:26787900). In the nucleus binds cooperatively to its cargo and to the GTPase Ran in
	its active GTP-bound form. Docking of this trimeric complex to the nuclear pore complex (NPC)
	is mediated through binding to nucleoporins (PubMed:10944119, PubMed:16449645). Upon
	transit of a nuclear export complex into the cytoplasm, disassembling of the complex and
	hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause
	release of the cargo from the export receptor (PubMed:10944119, PubMed:16449645). XPO4
	then return to the nuclear compartment and mediate another round of transport
	(PubMed:10944119, PubMed:16449645). The directionality of nuclear export is thought to be
	conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the
	cytoplasm and nucleus (PubMed:10944119, PubMed:16449645). Catalyzes the nuclear export
	of hypusinated EIF5A, a small cytoplasmic protein that enters nucleus and accumulates within
	nucleolus if not exported back by XPO4 (PubMed:10944119). Specifically mediates nuclear
	export of isoform M2 of PKM (PKM2) following PKM2 deacetylation by SIRT6

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Target Details	
	(PubMed:26787900). Also mediates the nuclear import of SOX transcription factors SRY and SOX2 (By similarity). {ECO:0000250 UniProtKB:Q9ESJ0, ECO:0000269 PubMed:10944119, ECO:0000269 PubMed:16449645, ECO:0000269 PubMed:26787900}.
Molecular Weight:	130.1 kDa
UniProt:	Q9C0E2
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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