Datasheet for ABIN7556054

XPO4 Protein (AA 1-1151) (His tag)

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Overview

Quantity:	1 mg
Target:	XPO4
Protein Characteristics:	AA 1-1151
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This XPO4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant XPO4 Protein expressed in mammalian cells.
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

Product Details

	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 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.**
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:	XPO4
Alternative Name:	XPO4 (XPO4 Products)
Background:	Exportin-4 (Exp4),FUNCTION: Mediates the nuclear export of proteins (cargos), such as EIF5A,

Target Details

	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 (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:	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