

Datasheet for ABIN7556038

XPO1 Protein (AA 1-1071) (His tag)



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Overview

Quantity:	1 mg
Target:	XPO1
Protein Characteristics:	AA 1-1071
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This XPO1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat XPO1 Protein expressed in mammalian cells.
Sequence:	<p>MPAINTMLAD HAARQLLDIFS QKLDINLLDN VVNCLYHGEG AQQRMAQEV L THLKEHPDAW</p> <p>TRVDTILEFS QNMNTKYYGL QILENVIKTR WKILPRNQCE GIKKYVVGLI IKTSSDPTCV</p> <p>EKEKVYIGKL NMILVQILKQ EWPKHWPTFI SDIVGASRTS ESLCQNNMVI LKLLSEEVFD</p> <p>FSSGQITQVK SKHLKDSMCN EFSQIFQLCQ FVMENSQNAP LVHATLETLL RFLNWIPLGY</p> <p>IFETKLITL IYKFLNVPMF RNVSLKCLTE IAGVSVSQYE EQFVTLFTLT MMQLKQMLPL</p> <p>NTNIRLAYS N GKDDEQNFIQ NLSLFLCTFL KEHDQLIEKR LNLRETLM EA LHMYLLVSEV</p> <p>EETEIFKICL EYWNHLAAEL YRESPFSTSA SPLLSGSQHF DVPPRRQLYL PMLFKVRLLM</p> <p>VSRMAKPEEV LVVENDQGEV VREFMKD TDS INLYKNMRET LVYLTHLDYV DTERIMTEKL</p> <p>HNQVNGTEWS WKNLNTLCWA IGSISGAMHE EDEKRFLVTV IKDLLGLCEQ KRGKDNKAI</p> <p>ASNIMYIVGQ YPRFLRAHWK FLKTVVNKLF EFMHETHDGV QDMACDTFIK IAQKCRHFV</p> <p>QVQVGEVMPF IDEILNNINT IICDLQPQQV HTFYEA VGYM IGAQTDQTVQ EHLIEKYMLL</p>

PNQVWDSIIQ QATKNVDILK DPETVKQLGS ILKTNVRACK AVGHPPFVIQL GRIYLDMLNV
YKCLSENISA AIQANGEMVT KQPLIRSMRT VKRETLKLIS GWVSRSDNPQ MVAENFVPPL
LDAVLIDYQR NVPAAREPEV LSTMAIIVNK LGGHITAEIP QIFDAVFECT LNMINKDFEE
YPEHRTNFFL LLQAVNSHCF PAFLAIPPTQ FKLVLDSIIV AFKHTMRNVA DTGLQILFTL
LQNVAQEEAA AQSFYQTYFC DILQHIFSVV TDTSTAGLT MHASILAYMF NLVEEGKIST
SLNPGNPVNN QIFLQEYVAN LLKSAFPHLQ DAQVKLFVTG LFSLNQDIPA FKEHLRDFLV
QIKEFAGEDT SDLFLEEREI ALRQADEEKH KRQMSVPGIF NPHEIPEEMC D **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

XP01

Alternative Name:

XP01 ([XP01 Products](#))

Background:

Exportin-1 (Exp1) (Chromosome region maintenance 1 protein homolog),FUNCTION: Mediates the nuclear export of cellular proteins (cargos) bearing a leucine-rich nuclear export signal (NES) and of RNAs. In the nucleus, in association with RANBP3, binds cooperatively to the NES

Target Details

on its target protein and to the GTPase RAN in its active GTP-bound form (Ran-GTP). Docking of this complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. 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. 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. Involved in U3 snoRNA transport from Cajal bodies to nucleoli. Binds to late precursor U3 snoRNA bearing a TMG cap. {ECO:0000269|PubMed:15574332, ECO:0000269|PubMed:20921223, ECO:0000269|PubMed:9311922, ECO:0000269|PubMed:9323133}., FUNCTION: (Microbial infection) Mediates the export of unspliced or incompletely spliced RNAs out of the nucleus from different viruses including HIV-1, HTLV-1 and influenza A. Interacts with, and mediates the nuclear export of HIV-1 Rev and HTLV-1 Rex proteins. Involved in HTLV-1 Rex multimerization. {ECO:0000269|PubMed:14612415, ECO:0000269|PubMed:9837918}.

Molecular Weight: 123.4 kDa

UniProt: [O14980](#)

Pathways: [M Phase](#)

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.

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