

Datasheet for ABIN7554210
IPO13 Protein (AA 1-963) (His tag)



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Overview

Quantity:	1 mg
Target:	IPO13
Protein Characteristics:	AA 1-963
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IPO13 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat IPO13 Protein expressed in mammalian cells.
Sequence:	<p>MERREEQPGA AGAGAAPALD FTVENVEKAL HQLYYDPNIE NKNLAQKWLM QAQVSPQAWH</p> <p>FSWQLLPDK VPEIQYFGAS ALHIKISRYW SDIPTDQYES LKAQLFTQIT RFASGSKIVL</p> <p>TRLCVALASL ALSMMPDAWP CAVADMVRLF QAEDSPVDGQ GRCLALLELL TVLPEEFQTS</p> <p>RLPQYRKGLV RTSLAVECGA VFPLLEQLLQ QPSSPSCVRQ KVLKCFSSWV QLEVPLQDCE</p> <p>ALIQAFAAL QDSELDSSV EAIVNAISQP DAQRYVNTLL KLIPLVLGLQ EQLRQAVQNG</p> <p>DMETSHGICR IAAVALGENHS RALLDQVEHW QSFLALVNMI MFCTGIPGHY PVNETTSSLT</p> <p>LTFWYTLQDD ILSFEAEKQA VYQQVYRPVY FQLVDVLLHK AQFPSDEEYG FWSSDEKEQF</p> <p>RIYRVDISDT LMYVYEMLGA ELLSNLYDKL GRLLTSSEEP YSWQHTEALL YGFQSI AETI</p> <p>DVNYSDVVPGLIGLIPRISI SNVQLADTVM FTIGALSEWL ADHPVMINSV LPLVLHALGN</p> <p>PELSVSSVST LKKICRECKY DLPPYAANIV AVSQDVL MKQ IHKTSQCMWL MQALGFLLSA</p> <p>LQVEEILKNL HSLISPIYIQ LEKLAEEIPN PSNKLAIVHI LGLLSNLFTT LDISHHEDDH EGPELRKLPV</p>

PQGNPVPVVV LQQVFQLIQK VLSKWLNDQA VVEAVCAIFE KSVKTLDDDF APMVPQLCEM
LGRMYSTIPQ ASALDLTRQL VHIFAHEPAH FPPIEALFLL VTSVTLTLFQ QGPRDHPDIV
DSFMQLLAQA LKRKPDFLC ERLDVKAVFQ CAVLALKFPE APTVKASCGF FTELLPRGGE
VESVGKVVQE DGRMLLIAVL EAIGGQASRS LMDCFADILF ALNKHCFSL SMWIKEALQP
PGFPSARLSP EQKDTFSQOI LRERNKRRV KEMVKEFTLL CRGLHGTDYT ADY **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	IPO13
Alternative Name:	IPO13 (IPO13 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-

Target Details

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:	O94829
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway , Nuclear Hormone Receptor Binding , Protein targeting to Nucleus

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