Datasheet for ABIN3133971

IGHMBP2 Protein (AA 2-993) (His tag)

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Overview

Quantity:	1 mg
Target:	IGHMBP2
Protein Characteristics:	AA 2-993
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGHMBP2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	ASSTVESFVA QQLQLLELER DAEVEERRSW QEHSSLRELQ SRGVCLLKLQ VSSQRTGLYG QRLVTFEPRK FGPAVVLPSN SFTSGDIVGL YDTNENSQLA TGVLTRITQK SVTVAFDESH DLQLNLDREN TYRLLKLAND VTYKRLKKAL MTLKKYHSGP ASSLIDILLG SSTPSPAMEI PPLSFYNTTL DLSQKEAVSF ALAQKELAII HGPPGTGKTT TVVEIILQAV KQGLKVLCCA PSNIAVDNLV ERLALCKKRI LRLGHPARLL ESVQHHSLDA VLARSDNAQI VADIRRDIDQ VFGKNKKTQD KREKGNFRSE IKLLRKELKE REEAAIVQSL TAADVVLATN TGASSDGPLK LLPEDYFDVV VVDECAQALE ASCWIPLLKA PKCILAGDHR QLPPTTVSHR AALAGLSRSL MERLAEKHGA GVVRMLTVQY RMHQAIMCWA SEAMYHGQFT SHPSVAGHLL KDLPGVTDTE ETRVPLLLID TAGCGLLELE EEDSQSKGNP GEVRLVTLHI QALVDAGVQA GDIAVIAPYN LQVDLLRQSL SNKHPELEIK SVDGFQGREK EAVLLTFVRS NRKGEVGFLA EDRRINVAVT RARRHVAVIC DSHTVNNHAF LETLVDYFTE HGEVRTAFEY LDDIVPENYT HEGSQGHSRV PKPKCPSTSI RKPASDQESG QETRAAPRHG RRKPSEKPPG SHVQSQHSSS ANGSDRTGGP

DRTEHFRATI EEFVASKESQ LEFPTSLSSH DRLRVHQLAE EFGLRHDSTG EGKARHITVS RRSPASSGSV APQPSSPPSP AQAEPEPRAE EPVTVVQAHC PVQLDLKALH LERLQRQQSS QAQTAKGQPG GDSRPQKASQ KKKKKEPKGP VMALPCEEDF DALVSAVVKA DNTCSFSKCS VSTTTLGQFC MHCSHRYYLS HHLPEIHGCG EKARAHARQR ISREGVLYAG SGTKDRALDP AKRAQLQRRL DKKLGELSSQ RTSRKKEKER G

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Ighmbp2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. 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.

Product Details

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	IGHMBP2
Alternative Name:	Ighmbp2 (IGHMBP2 Products)
Background:	5' to 3' helicase that unwinds RNA and DNA duplices in an ATP-dependent reaction. Acts as a transcription regulator. Required for the transcriptional activation of the flounder liver-type antifreeze protein gene. Exhibits strong binding specificity to the enhancer element B of the flounder antifreeze protein gene intron. Binds to the insulin II gene RIPE3B enhancer region (By similarity). May be involved in translation. DNA-binding protein specific to 5'-phosphorylated single-stranded guanine-rich sequence related to the immunoglobulin mu chain switch region. Preferentially binds to the 5'-GGGCT-3' motif. Interacts with tRNA-Tyr. {ECO:0000250, ECO:0000269|PubMed:19158098, ECO:0000269|PubMed:19299493}.
Molecular Weight:	110.2 kD. Including tag.
UniProt:	P40694

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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

