Datasheet for ABIN3130641

Ifi202b Protein (AA 1-445) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Ifi202b
Protein Characteristics:	AA 1-445
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ifi202b protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSNRNLRSST NSEFSEGQHQ TPSSDSSGHG EDQPQASPGP NKKSHTPKKN ISKGAVLHEK PMTVMVLTAT EPFNYKEGKE NMFHATVATE SQYYRVKVFN MDLKEKFTEN KFITISKYFN SSGILEINET ATVSEAAPNQ IIEVPKNIIR SAKETLKISK IKELDSGTLI YGVFAVEKKK VNDKSITFKI KDNEDNIKVV WDKKQHNINY EKGDKLQLFS FHLRKGNGKP ILHSGNHSFI KGEKLLKESF EGDGYHKGPK QVVALKATKL FTYDSIKSKK MFHATVATDT EFFRVMVFEE NLEKKFIPGN TIALSDYFGM YGSLAIHEYS SVSEVKSQNK EDSSSSDERL IEHLKICDLH LQTKERLVDG EFKVYRKSTG NNCICYGIWD DTGAMKVVVS GQLTSVNCEI GNTIRLVCFE LTSNADEWFL RSTRYSYMEV IMPEK **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.**

Product Details

Characteristics:	Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • 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 try to ensure that you receive soluble 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 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! Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	Ifi202b
Alternative Name:	Ifi202 (Ifi202b Products)
Background:	Interferon-activable protein 202 (Ifi-202) (Interferon-inducible protein p202) (Lupus susceptibility protein p202),FUNCTION: DNA-binding protein involved in innate immune response and has anti-inflammatory activity (PubMed:19131592, PubMed:23850291, PubMed:23567559). Inhibits caspase activation in response to cytosolic DNA by preventing activation of the AIM2 inflammasome, probably by sequestering cytoplasmic DNA and preventing its being bound by AIM2 (PubMed:19131592, PubMed:23850291, PubMed:23567559). Also inhibits activation of the AIM2 inflammasome via a direct interaction with AIM2, which prevents the interaction between AIM2 and PYCARD and formation of the AIM2 inflammasome (PubMed:23850291). Binds double-stranded DNA (dsDNA) in the cytosol (PubMed:19131592, PubMed:23850291, PubMed:23567559, PubMed:24419611). Has anti-apoptotic effects due to inhibition of the transcriptional activity of TP53/p53 (PubMed:16670293). Inhibits the transcriptional activity of several transcription factors, including NF-kappa-B p50 and p65, FOS, JUN, E2F1, E2F4, MYOD1 and myogenin (PubMed:8524315). {ECO:0000269|PubMed:16670293, ECO:0000269|PubMed:19131592, ECO:0000269|PubMed:23567559, ECO:0000269|PubMed:23850291, ECO:0000269|PubMed:24419611, ECO:0000269|PubMed:8524315}.
Molecular Weight:	50.5 kDa
UniProt:	Q9R002

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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months