Datasheet for ABIN3129724

RAI14 Protein (AA 1-979) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RAI14
Protein Characteristics:	AA 1-979
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAI14 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MKSLKAKFRK SDTNEWNKND DRLLQAVENG DAEKVASLLG KKGASATKHD SEGKTAFHLA AAKGHVECLK VMVTHGVDVT AQDSSGHSAL HVAAKNGHPE CIRKLLQYKS PAENIDNSGK TALHYAAAQG CLQAVQLLCE HKSPINLKDL DGNIPLLVAV QNGHSEACHF LLDHGADVNS RDKNGRTALM LACETGSSNT VDALIKKGAD LSLVDSLGHN ALHYSKLSEN AGIQNLLLSK ISQDADLKTP TKPKQHDQVS KISSERSGTP KKRKAPPPPI SPTQLSDVSS PRSITSTPLS GKESVFFAEA PFKAEISSIQ ENKDRLSDST AGADSLLDIS SEADQQDLLV LLQAKVASLT LHNKELQDKL QAKSPKDKEA EADLSFQSFH STQTDLAPSP GKASDIPSSD AKSSPPVEHP AGTSTTDNDV IIRQLQDSLH DLQKRLESSE AEKKQLQDEL QSQRTDTLCL NNTEISENGS DLSQKLKETQ SKYEEAMKEV LSVQKQMKLG LLSQESADGY SHLREAPADE DIDTLKQDLQ KAVEESARNK ERVRELETKL AEKEQAEATK PPAEACEELR SSYCSVIENM NKEKAFLFEK YQQAQEEIMK LKDTLKSQMP QEAPDDSGDM KEAMNRMIDE LNKQVSELSQ LYREAQAELE

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DYRKRKSLED AAEYIHKAEH ERLMHVSNLS RAKSEEALSE MKSQYSKVLN ELTQLKQLVD AHKENSVSIT EHLQVITTLR TTAKEMEEKI SALTGHLANK EAEVAKLEKQ LAEEKAAVSD AMVPKSSYEK LQASLESEVN ALATKLKESV REREKAHSEV AQVRSEVSQA RREKDNIQTL LKAKEQEVTA LVQKFQRAQE ELAGMRRCSE TSSKLEEDKD EKINEMTREV LKLKEALNSL SQLSYSTSSS KRQSQQLDLL QQQVKQLQNQ LAECKKHHQE VISVYRMHLL YAVQGQMDED VQKVLKQILT MCKNQSQKK

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.

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.

Product Details

- 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:	RAI14
Alternative Name:	Rai14 (RAI14 Products)
Background:	Ankycorbin (Ankyrin repeat and coiled-coil structure-containing protein) (Novel retinal pigment epithelial cell protein) (Retinoic acid-induced protein 14) (p125),FUNCTION: Plays a role in actin regulation at the ectoplasmic specialization, a type of cell junction specific to testis. Important for establishment of sperm polarity and normal spermatid adhesion. May also promote integrity of Sertoli cell tight junctions at the blood-testis barrier. {ECO:0000250|UniProtKB:Q5U312}.
Molecular Weight:	108.9 kDa
UniProt:	Q9EP71

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 something that functions like a cell, but without the constraints of a living system - all that's

Application Details

	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

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