Datasheet for ABIN3135056

ARHGAP17 Protein (AA 1-846) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ARHGAP17
Protein Characteristics:	AA 1-846
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGAP17 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MKKQFNRMKQ LANQTVGRAE KTEVLSEDLL QIERRLDTVR SMCHHSHKRL IACFQGQHGT DAERRHKKLP LTALAQNMQE ASAQLEESLL GKMLETCGDA ENQLALELSQ HEVFVEKEIM DPLYGIAEVE IPNIQKQRKQ LARLVLDWDS VRARWNQAHK SSGTNFQGLP SKIDTLKEEM DEAGNKVEQC KDQLAADMYN FMAKEGEYGK FFVTLLEAQA DYHRKALAVL EKALPEMRAH QDKWAEKPAF GTPLEEHLKR SGREIALPIE ACVMLLLETG MKEEGLFRIG AGASKLKKLK AALDCSTSHL DEFYSDPHAV AGALKSYLRE LPEPLMTFSL YEEWTQVASV QDQDKKLQYL WTTCQKLPPQ NFVNFRYLIK FLAKLAQTSD VNKMTPSNIA IVLGPNLLWA KQEGTLAEIA AATSVHVVAV IEPIIQHADW FFPGEVEFNV SEAFVPLATP NSNHSSHTGN DSDSGTLERK RPASMAVMEG DLVKKESFGV KLMDFQAHRR GGTLNRKHIA PAFQPPLPPT DGNALAPAGP EPPSQSSRAD SSSGGGPVFS STGILEQGLS PGDSSPPKPK DSVSAAVPAA GRNSNQMTTV PNQAQTGGNS HQLSVSTPHS AAGPSPHTLR RAVKKPAPAP PKPGNLPPGH PGGQSSPGTG

	TSPKPSARSP SPPQQQQQQQ QQQQQQQQQQ TPGMRRCSSS LPPIQAPSHP PPQPPTQPRL GEQGPEPGPT PPQTPTPPST PPLAKQNPSQ SETTQLHGTL PRPRPVPKPR NRPSVPPPPH PPGTHTVDGG LTSSVPTASR IVTDTNSRVS ESLRSIFPEI HSDLASKEVP GHILLDIDND TESTAL **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. • 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

Product Details

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	ARHGAP17
Alternative Name:	Arhgap17 (ARHGAP17 Products)
Background:	Rho GTPase-activating protein 17 (Neuron-associated developmentally-regulated protein) (Nadrin) (Rho-type GTPase-activating protein 17),FUNCTION: Rho GTPase-activating protein involved in the maintenance of tight junction by regulating the activity of CDC42, thereby playing a central role in apical polarity of epithelial cells. Specifically acts as a GTPase activator for the CDC42 GTPase by converting it to an inactive GDP-bound state. The complex formed with AMOT acts by regulating the uptake of polarity proteins at tight junctions, possibly by deciding whether tight junction transmembrane proteins are recycled back to the plasma membrane or sent elsewhere. Participates in the Ca(2+)-dependent regulation of exocytosis, possibly by catalyzing GTPase activity of Rho family proteins and by inducing the reorganization of the cortical actin filaments. Acts as a GTPase activator in vitro for RAC1 (By similarity). {ECO:0000250}.
Molecular Weight:	92.2 kDa
UniProt:	Q3UIA2

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

Application Details

	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!
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