

Datasheet for ABIN3137551 RACGAP1 Protein (AA 1-628) (Strep Tag)



Overview

Quantity:	250 µg
Target:	RACGAP1
Protein Characteristics:	AA 1-628
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RACGAP1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MDTTMVNLWT LFEQLVRRME IINEGNESIE FIQVVKDFED FRKKYQRTNQ ELEKFKDLLL
	KAETGRSALD VKLKHARNQV DVEIKRRQRA EAECAKLEQQ IQLIRDILMC DTSGSIQLSE
	EQKSALAFLN RGQASSGHAG NNRLSTIDES GSILSDISFD KTDESLDWDS SLVKNFKMKK
	REKRRSNSRQ FIDGPPGPVK KTCSIGSTVD QANESIVAKT TVTVPSDGGP IEAVSTIETL
	PSWTRSRGKS GPLQPVNSDS ALNSRPLEPR TDTDNLGTPQ NTGGMRLHDF VSKTVIKPES
	CVPCGKRIKF GKLSLKCRDC RLVSHPECRD RCPLPCIPPL VGTPVKIGEG MLADFVSQAS
	PMIPAIVVSC VNEIEQRGLT EAGLYRISGC DRTVKELKEK FLKVKTVPLL SKVDDIHVIC
	SLLKDFLRNL KEPLLTFWLS KAFMEAAEIT DEDNSTAAMY QAVSELPQAN RDTLAFLMIH
	LQRVSQSPDT KMDIANLAKV FGPTIVAHTV PNPDPVTMFQ DIKRQLKVVE RLLSLPLEYW
	NQFMMVDQEN IDSQRGNGNS TPRTPDVKVS LLGPVTTPEF QLVKTPLSSS LSQRLYNLSK
	STPRFGNKSK SATNLGQQGK FFPAPYLK

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3137551 | 02/26/2025 | Copyright antibodies-online. All rights reserved. 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 posttranslational 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).

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Product Details

Grade:

custom-made

Target Details

Target:	RACGAP1
Alternative Name:	Racgap1 (RACGAP1 Products)
Background:	Rac GTPase-activating protein 1 (Male germ cell RacGap) (MgcRacGAP),FUNCTION:
	Component of the centralspindlin complex that serves as a microtubule-dependent and Rho-
	mediated signaling required for the myosin contractile ring formation during the cell cycle
	cytokinesis. Required for proper attachment of the midbody to the cell membrane during
	cytokinesis. Sequentially binds to ECT2 and RAB11FIP3 which regulates cleavage furrow
	ingression and abscission during cytokinesis. Plays key roles in controlling cell growth and
	differentiation of hematopoietic cells through mechanisms other than regulating Rac GTPase
	activity. Has a critical role in erythropoiesis (By similarity). Also involved in the regulation of
	growth-related processes in adipocytes and myoblasts. May be involved in regulating
	spermatogenesis and in the RACGAP1 pathway in neuronal proliferation. Shows strong GAP
	(GTPase activation) activity towards CDC42 and RAC1 and less towards RHOA. Essential for
	the early stages of embryogenesis. May play a role in regulating cortical activity through RHO4
	during cytokinesis. May participate in the regulation of sulfate transport in male germ cells.
	{ECO:0000250 UniProtKB:Q9H0H5, ECO:0000269 PubMed:10235109,
	EC0:0000269 PubMed:10493933, EC0:0000269 PubMed:10979956,
	EC0:0000269 PubMed:11287179}.
Molecular Weight:	70.2 kDa
JniProt:	Q9WVM1
Pathways:	Regulation of Actin Filament Polymerization, Myometrial Relaxation and Contraction,
	Regulation of G-Protein Coupled Receptor Protein Signaling, Signaling of Hepatocyte Growth
	Factor Receptor
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

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	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!
Restrictions:	For Research Use only
Handling	
Handling Format:	Liquid
	Liquid The buffer composition is at the discretion of the manufacturer.
Format:	·
Format:	The buffer composition is at the discretion of the manufacturer.
Format: 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.
Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.