antibodies

# Datasheet for ABIN3116370 RHOT1 Protein (AA 1-618) (Strep Tag)





#### Overview

Quantity:	1 mg
Target:	RHOT1
Protein Characteristics:	AA 1-618
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RHOT1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

	SPTDFCRKHK MPPPQAFTCN TADAPSKDIF VKLTTMAMYP HVTQADLKSS TFWLRASFGA
	FLTEAEIICD VVCLVYDVSN PKSFEYCARI FKQHFMDSRI PCLIVAAKSD LHEVKQEYSI
	CNVIGVKNCG KSGVLQALLG RNLMRQKKIR EDHKSYYAIN TVYVYGQEKY LLLHDISESE
	GFLSQWTLTT YLDVQRCLEY LGYLGYSILT EQESQASAVT VTRDKKIDLQ KKQTQRNVFR
	LNHHAYLFLQ STFDKHDLDR DCALSPDELK DLFKVFPYIP WGPDVNNTVC TNERGWITYQ
	VADSGLTLKG FLFLHTLFIQ RGRHETTWTV LRRFGYDDDL DLTPEYLFPL LKIPPDCTTE
	MKPACIKALT RIFKISDQDN DGTLNDAELN FFQRICFNTP LAPQALEDVK NVVRKHISDG
	DLVEYSSMET ILPIMNQYTE IETCVECSAK NLKNISELFY YAQKAVLHPT GPLYCPEEKE
	AEQSDEQLHQ EISQANVICI VYAVNNKHSI DKVTSRWIPL INERTDKDSR LPLILVGNKS
Sequence:	MKKDVRILLV GEPRVGKTSL IMSLVSEEFP EEVPPRAEEI TIPADVTPER VPTHIVDYSE

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	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:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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 <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> <li>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!</li> </ul>
	<ul> <li>Concentration:</li> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</li> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

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#### **Target Details**

Target:	RHOT1
Alternative Name:	RHOT1 (RHOT1 Products)
Background:	Mitochondrial Rho GTPase 1 (MIRO-1) (hMiro-1) (EC 3.6.5) (Rac-GTP-binding protein-like protein) (Ras homolog gene family member T1),FUNCTION: Mitochondrial GTPase involved in mitochondrial trafficking (PubMed:12482879, PubMed:16630562, PubMed:22396657). Probably involved in control of anterograde transport of mitochondria and their subcellular distribution (PubMed:12482879, PubMed:16630562, PubMed:22396657). Promotes mitochondrial fission during high calcium conditions (PubMed:27716788). {ECO:0000269 PubMed:12482879, ECO:0000269 PubMed:16630562,
Molecular Weight:	ECO:0000269 PubMed:22396657, ECO:0000269 PubMed:27716788}. 70.8 kDa
UniProt:	Q8IXI2
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

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:	<ul> <li>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from</li> <li>Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce</li> <li>even the most difficult-to-express proteins, including those that require post-translational</li> <li>modifications.</li> <li>During lysate production, the cell wall and other cellular components that are not required for</li> <li>protein production are removed, leaving only the protein production machinery and the</li> </ul>

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Application Deta	ails
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	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

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

#### Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process