antibodies

# Datasheet for ABIN3137612 RASGRP1 Protein (AA 1-795) (His tag)





Overview

Quantity:	1 mg
Target:	RASGRP1
Protein Characteristics:	AA 1-795
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RASGRP1 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

### Product Details

Sequence:	MGTLGKAREA PRKPCHGSRA GPKARLEAKS TNSPLPAQPS LAQITQFRMM VSLGHLAKGA
	SLDDLIDSCI QSFDADGNLC RNNQLLQVML TMHRIIISSA ELLQKVMNLY KDALEKNSPG
	VCLKICYFVR YWITEFWIMF KMDASLTSTM EEFQDLVKAN GEETHCHLID TTQINSRDWS
	RKLTQRIKSN TSKKRKVSLL FDHLEPEELS EHLTYLEFKS FRRISFSDYQ NYLVNSCVKE
	NPTMERSIAL CNGISQWVQL MVLSRPTPQL RAEVFIKFIH VAQKLHQLQN FNTLMAVIGG
	LCHSSISRLK ETSSHVPHEI NKVLGEMTEL LSSCRNYDNY RRAYGECTHF KIPILGVHLK
	DLISLYEAMP DYLEDGKVNV QKLLALYNHI NELVQLQEMA PPLDANKDLV HLLTLSLDLY
	YTEDEIYELS YAREPRNHRA PPLTPSKPPV VVDWASGVSP KPDPKTISKH VQRMVDSVFK
	NYDLDQDGYI SQEEFEKIAA SFPFSFCVMD KDREGLISRD EITAYFMRAS SIYSKLGLGF
	PHNFQETTYL KPTFCDNCAG FLWGVIKQGY RCKDCGMNCH KQCKDLVVFE CKKRIKSPAI
	STENISSVVP MSTLCPLGTK DLLHAPEEGS FIFQNGEIVD HSEESKDRTI MLLGVSSQKI
	SVRLKRTVAH KSTQTESFPW VGGETTPGHF VLSSPRKSAQ GALYVHSPAS PCPSPALVRK

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	RAFVKWENKE SLIKPKPELH LRLRTYQELE QEINTLKADN DALKIQLKYA QKKIESLQLG
	KSNHVLAQMD HGDSA
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Rasgrp1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>
	• 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 will ensure that you receive a correctly folded 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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> </ol>
	<ol> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

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#### Product Details

Grade:

Crystallography grade

## Target Details

Target:	RASGRP1
Alternative Name:	Rasgrp1 (RASGRP1 Products)
Background:	Functions as a calcium- and diacylglycerol (DAG)-regulated nucleotide exchange factor
	specifically activating Ras through the exchange of bound GDP for GTP. Activates the Erk/MAF
	kinase cascade. Regulates T-cell/B-cell development, homeostasis and differentiation by
	coupling T-lymphocyte/B-lymphocyte antigen receptors to Ras. Regulates NK cell cytotoxicity
	and ITAM-dependent cytokine production by activation of Ras-mediated ERK and JNK
	pathways (By similarity). Functions in mast cell degranulation and cytokine secretion, regulation
	FcERI-evoked allergic responses (PubMed:17190838). May also function in differentiation of
	other cell types. Proto-oncogene, which promotes T-cell lymphomagenesis when its expression
	is deregulated (PubMed:15829980, PubMed:17210708). {ECO:0000250 UniProtKB:095267,
	EC0:0000269 PubMed:11017103, EC0:0000269 PubMed:12433368,
	ECO:0000269 PubMed:12538669, ECO:0000269 PubMed:12845332,
	EC0:0000269 PubMed:12932358, EC0:0000269 PubMed:14532295,
	EC0:0000269 PubMed:14970203, EC0:0000269 PubMed:15829980,
	ECO:0000269 PubMed:16301621, ECO:0000269 PubMed:16849453,
	EC0:0000269 PubMed:17190838, EC0:0000269 PubMed:17210708,
	EC0:000269 PubMed:9819387}.
Molecular Weight:	91.3 kDa Including tag.
JniProt:	Q9Z1S3
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.

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## Application Details

#### Restrictions:

For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
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