

Datasheet for ABIN7565281

## RASGRP1 Protein (AA 1-795) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	RASGRP1
Protein Characteristics:	AA 1-795
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RASGRP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat Rasgrp1 Protein expressed in mammalian cells.
Sequence:	<p>MGTLGKAREA PRKPCHGSRA GPKARLEAKS TNSPLPAQPS LAQITQFRMM VSLGHLAKGA</p> <p>SLDDLIDSCI QSFADAGNLC RNNQLLQVML TMHRIISSA ELLQKVMNLY KDALEKNSPG</p> <p>VCLKICYFVR YWITEFWIMF KMDASLTSTM EEQDLVKAN GEETHCHLID TTQINSRDWS</p> <p>RKLTQRIKSN TSKKRKVSL FDHLEPEELS EHLTYLEFKS FRRISFSDYQ NYLVNSCVKE</p> <p>NPTMERSIAL CNGISQWVQL MVLSRPTPQL RAEVFIKFIH VAQKLHQLQN FNTLMAVIGG</p> <p>LCHSSISRLK ETSSHVPHEI NKVLGEMTEL LSSCRNYDNY RRAYGECTHF KIPILGVHLK</p> <p>DLISLYEAMP DYLEDGKVVN QKLLALYNHI NELVQLQEMA PPLDANKDLV HLLTSLDLTY</p> <p>YTEDEIYELS YAREPRNHRA PPLTPSKPPV VVDWASGVSP KPDPKTISKH VQRMVDSVFK</p> <p>NYDLDDQGYI SQEEFEKIAA SFPFSFCVMD KDREGLISRD EITAYFMRAS SIYSKLGLGF</p> <p>PHNFQETTYL KPTFCDNCAG FLWGVKQGY RCKDCGMNCH KQCKDLVFE CKKRIKSPAI</p> <p>STENISSVVP MSTLCPLGTK DLLHAPEEGS FIFQNGEIVD HSEESKDRTI MLLGVSSQKI</p>

SVRLKRTVAH KSTQTESFPW VGGETTPGHF VLSSPRKSAQ GALYVHSPAS PCPSPALVRK  
RAFKWENKE SLIKPKPELH LRLRTYQELE QEINTLKADN DALKIQLKYA QKKIESLQLG  
KSNHVLAQMD HGDSA **Sequence without tag. The proposed Purification-Tag is based on experiences 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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
------------------	---

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
---------	---

Grade:	custom-made
--------	-------------

Target Details

Target:	RASGRP1
Alternative Name:	Rasgrp1 ( <a href="#">RASGRP1 Products</a> )
Background:	<p>RAS guanyl-releasing protein 1 (Calcium and DAG-regulated guanine nucleotide exchange factor II) (CaDAG-GEFII) (Ras guanyl-releasing protein),FUNCTION: 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/MAP 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, regulating FcERI-evoked allergic</p>

## Target Details

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:O95267, ECO:0000269|PubMed:11017103, ECO:0000269|PubMed:12433368, ECO:0000269|PubMed:12538669, ECO:0000269|PubMed:12845332, ECO:0000269|PubMed:14532295, ECO:0000269|PubMed:14970203, ECO:0000269|PubMed:15829980, ECO:0000269|PubMed:16301621, ECO:0000269|PubMed:16849453, ECO:0000269|PubMed:17190838, ECO:0000269|PubMed:17210708, ECO:0000269|PubMed:9819387}.

Molecular Weight:	90.3 kDa
UniProt:	<a href="#">Q9Z1S3</a>
Pathways:	<a href="#">TCR Signaling, Fc-epsilon Receptor Signaling Pathway</a>

## 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.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months