

Datasheet for ABIN7565248

RACGAP1 Protein (AA 1-628) (His tag)



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Overview

Quantity:	1 mg
Target:	RACGAP1
Protein Characteristics:	AA 1-628
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RACGAP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Racgap1 Protein expressed in mammalian cells.
Sequence:	<p>MDTTMVNLWT LFEQLVRRME IINEGNESIE FIQVVKDFED FRKKYQRTNQ ELEKFKDLLL</p> <p>KAETGRSALD VKLKHARNQV DVEIKRRQRA EAECAKLEQQ IQLIRDILMC DTSGSIQLSE</p> <p>EQKSALAFLN RGQASSGHAG NNRLSTIDES GSILSDISFD KTDESLDWDS SLVKNFKMKK</p> <p>REKRRSNSRQ FIDGPPGPVK KTC SIGSTVD QANESIVAKT TVTVPSDGGP IEAVSTIETL</p> <p>PSWTRSRGKS GPLQPVNSDS ALNSRPLEPR TDTNLTGPQ NTGGMRLHDF VSKTVIKPES</p> <p>CVPCGKRIKF GKLSLKCRCDC RLVSHPECRD RCPLPCIPPL VGTPVKIGEG MLADFVSQAS</p> <p>PMIPAIVVSC VNEIEQRGLT EAGLYRISGC DRTVKELKEK FLKVKTVPPL SKVDDIHVIC</p> <p>SLLKDFLRNL KEPLLTFWLS KAFMEAAEIT DEDNSTAAMY QAVSELPQAN RDTLAFLMIH</p> <p>LQRVSQSPDT KMDIANLAKV FGPTIVAHTV PNPDPVTMFQ DIKRQLKVVE RLLSLPLEYW</p> <p>NQFMMVDQEN IDSQRGNGNS TPRTPDVKVS LLGPVTTPEF QLVKTPPLSS LSQRLYNLSK</p> <p>STPRFGNKSK SATNLGQQGK FFPAPYLK Sequence without tag. The proposed Purification-</p>

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:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

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

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

Target Details

(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 RHOA during cytokinesis. May participate in the regulation of sulfate transport in male germ cells. {ECO:0000250|UniProtKB:Q9H0H5, ECO:0000269|PubMed:10235109, ECO:0000269|PubMed:10493933, ECO:0000269|PubMed:10979956, ECO:0000269|PubMed:11287179}.

Molecular Weight: 70.2 kDa

UniProt: [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.

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