

Datasheet for ABIN3095033

ARHGAP24 Protein (AA 1-748) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ARHGAP24
Protein Characteristics:	AA 1-748
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGAP24 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MEENNDSTEN PQQGQGRQNA IKCGWLRKQG GFVKTWHTRW FVLKGDQLYY FKDEDETKPL</p> <p>GTIFLPGNKV SEHPCNEENP GKFLFEVVP GDRDRMTANH ESYLLMASTQ NDMEDWVKSI</p> <p>RRVIWGPF GG GIFGQKLED T VRYEKRYGNR LAPMLVEQCV DFIRQRGLKE EGLFRLPGQA</p> <p>NLVKELQDAF DCGEKPSFDS NTDVHTVASL LKLYLRELPE PVIPIYAKYED FLSCAKLLSK</p> <p>EEEAGVKELA KQVKSLPVVN YNLLKYICRF LDEVQSYSGV NKMSVQNLAT VFGPNILRPK</p> <p>VEDPLTIMEG TVVVQQLMSV MISKHDCLFP KDAELQSKPQ DGVSNNNEIQ KKATMGQLQN</p> <p>KENNNTKDSP SRQCSWDKSE SPQRSSMNNG SPTALSGSKT NSPKNSVHKL DVSRSPPLMV</p> <p>KKNPAFNKGS GIVTNGSFSS SNAEGLEKTQ TTPNGSLQAR RSSSLKVS GT KMGTHSVQNG</p> <p>TVRMGILNSD TLGNPTNVRN MSWLPNGYVT LRDNKQKEQA GELGQHNRLS TYDNVHQQFS</p> <p>MMNLDDKQSI DSATWSTSSC EISLPENSNS CRSSTTTCPE QDFFGGNFED PVLGPPQDD</p> <p>LSHPRDYESK SDHRSVGGRS SRATSSSDNS ETFVGNSSSN HSALHSLVSS LKQEMTKQKI</p>

EYESRIKSLE QRNLTLETETEM MSLHDELDQE RKKFTMIEIK MRNAERAKED AEKRNDMLQK
EMEQFFSTFG ELTVEPRRTE RGNTIWIQ

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 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!

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®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: ARHGAP24

Alternative Name: ARHGAP24 ([ARHGAP24 Products](#))

Background: Rho GTPase-activating protein 24 (Filamin-A-associated RhoGAP) (FilGAP) (RAC1- and CDC42-specific GTPase-activating protein of 72 kDa) (RC-GAP72) (Rho-type GTPase-activating protein 24) (RhoGAP of 73 kDa) (Sarcoma antigen NY-SAR-88) (p73RhoGAP),FUNCTION: Rho GTPase-activating protein involved in cell polarity, cell morphology and cytoskeletal organization. Acts as a GTPase activator for the Rac-type GTPase by converting it to an inactive GDP-bound state. Controls actin remodeling by inactivating Rac downstream of Rho leading to suppress leading edge protrusion and promotes cell retraction to achieve cellular polarity. Able to suppress RAC1 and CDC42 activity in vitro. Overexpression induces cell rounding with partial or complete disruption of actin stress fibers and formation of membrane ruffles, lamellipodia, and filopodia. Isoform 2 is a vascular cell-specific GAP involved in modulation of angiogenesis. {ECO:0000269|PubMed:15302923, ECO:0000269|PubMed:15611138, ECO:0000269|PubMed:16862148}.

Molecular Weight: 84.3 kDa

UniProt: [Q8N264](#)

Pathways: [Regulation of Cell Size](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

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 even the most difficult-to-express proteins, including those that require post-translational modifications.

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Application Details

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Restrictions: For Research Use only

Handling

Format: Liquid

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.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months