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Datasheet for ABIN3087240 ARHGAP11B Protein (AA 1-267) (Strep Tag)



Overview

000000000	
Quantity:	1 mg
Target:	ARHGAP11B
Protein Characteristics:	AA 1-267
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGAP11B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	MWDQRLVKLA LLQHLRAFYG IKVKGVRGQC DRRRHETAAT EIGGKIFGVP FNALPHSAVP
	EYGHIPSFLV DACTSLEEHI HTEGLFRKSG SVIRLKALKN KVDHGEGCLS SAPPCDIAGL
	LKQFFRELPE PILPADLHEA LLKAQQLGTE EKNKAILLLS CLLADHTVHV LRYFFNFLRN
	VSLRSSENKM DSSNLAVIFA PNLLQTSEGH EKMSSNAEKK GVYQTLSWKR YQPCWVLMVS
	VLLHHWKALK KVNMKLLVNI REREDNV
	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 by multi-step, protein-specific process to ensure correct folding and modification.

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- 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 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.

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 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.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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Product Details

Grade:

Crystallography grade

Target Details

Target:	ARHGAP11B
Alternative Name:	ARHGAP11B (ARHGAP11B Products)
Background:	Inactive Rho GTPase-activating protein 11B (Rho-type GTPase-activating protein
	11B),FUNCTION: Hominin-specific protein that promotes development and evolutionary
	expansion of the brain neocortex (PubMed:25721503, PubMed:27957544, PubMed:30484771,
	PubMed:32554627, PubMed:33938018). Able to promote amplification of basal progenitors in
	the subventricular zone, producing more neurons during fetal corticogenesis, thereby playing a
	key role in neocortex expansion (PubMed:25721503). Promotes the proliferation of basal
	progenitors by inhibiting the mitochondrial permeability transition pore (mPTP): delays the
	opening of the mPTP via interaction with ADP:ATP translocase, thereby increasing
	mitochondrial Ca(2+) concentration and inducing glutamine catabolism, which is required for
	basal progenitor proliferation (PubMed:31883789). Does not possess GTPase activator activity
	the absence of GTPase activator activity is required to promote amplification of basal
	progenitors during neocortex development (PubMed:25721503, PubMed:27957544).
	{EC0:0000269 PubMed:25721503, EC0:0000269 PubMed:27957544,
	ECO:0000269 PubMed:30484771, ECO:0000269 PubMed:31883789,
	EC0:0000269 PubMed:32554627, EC0:0000269 PubMed:33938018}.
Molecular Weight:	30.3 kDa
UniProt:	Q3KRB8
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.
	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

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Application Details	
	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 °CStorage Comment:Store at -80°C.Expiry Date:Unlimited (if stored properly)