Datasheet for ABIN3136685

ARAP3 Protein (AA 1-1538) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	ARAP3
Protein Characteristics:	AA 1-1538
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARAP3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAAPQDLDIA VWLALVHLEQ YADTFRRHGL ATAGAAQHLG HEELRHLGIS ATGHRKRILR LLRAGSAEGF LDSHLDNTME PTPSPAPDAQ PPKPVPKPRT VFGLSNPATA QRPGLSPIFW DPEVSRNSEC TQRSSPLLPS SSEQPSVPNT MEMMPNAIYF GLDLRGRAQA AQDVTPDSSQ ATVPTPAFRP TTGTVHIMDP GCLYYGVQPV GIPGASDRRD GRGVCQERAE HRQDLETRED AGYASLELPG DSILSLPTQD AETSDDLISP YASFSSTADR PVPLLSGWLD KLSPQGNYVF QRRFVQFNGR SLMYFGSDKD PFPKGVIPLT AIEMTRSSKD NKFQVITGQR VFVFRTESEA QRDLWCSTLQ SCLKEQRLLG HPRPPHPPRP LRTGTLELRG HKAKVFAALI PGELALYKSE QAFSLGIGIC FIELQGCSVR ETKSRSFDLL TPHRCFSFTA ESGGARQSWA AALQEAVTET LSDYEVAEKV WSNPANRHCA DCRASRPDWA AVNLGVVICK QCAGQHRALG SGISKVQSLK LDTSVWSNEI VQLFIVLGND RANCFWAGAL PPGEGLHPDS APGPRGEFIS RKYKLGLFRK PHPRHPDHSQ LLQALCAAMA GPNLLKNMAQ LLCVETSEGE EPLSPSALNG SLLSLLPSDS PGVYNEVVVP ATYRGFLYCG SISNKAGAPP LRRGRDAPPR LWCVLGAALE MFASESSPEP

LSLLQPQDIV CLGVSPPPAD PGDLDRFPFS FELILTGGRI QHFATDGADS LEAWISAVGK WFSPLSCHQL LGPGLLRMGR LWLRSPSHAG LAPGLWLSGF GLLRGDHLFL CPAPGPGPPA PEDMVHLRRL QEISVVSAAD TPDKKEHLVL VETGRTLYLQ GEGRLDFAAW NTAIGGAAGG GGTGLQEQQM SRGDIPIIVD ACISFVTQHG LRLEGVYRKG GARARSLRLL AEFRRDARSV KLRPREHFVE DVTDTLKRFF RELDDPVTSA RLLPRWREAA ELSQKNQRLE KYKEVISCLP RVNRRTLATL IGHLYRVQKC ASLNQMCTRN LALLFAPSVF QTDGRGEHEV RVLQELIDGY ISVFDIDSDQ AAQIDLEVSL ITTWKDVQLS QAGDLIMEVY IEQQLPDNCV TLKVSPTLTA EELTNQVLEM RGAASGTDLW VTFEILEHGE LERPLHPKEK VLEQALQWCQ LPEPCSASLL LRKVSMAHAG CLFTGVRRES PRVGLLRCRE EPPRLLGNRF QERFFLVRGR CLLLLKEKKS SKPEREWSLE GAKVYLGIRK KLKPPTLWGF TLILEKMHLC LSCMDEEEMW DWTTSILKAQ HDDQQSVVLR RRSSSDLARQ KFGTMPLLPI RGDDSGATLL SANQTLRRLH NRRTLSMFFP MKSPQGSVEE QDELEEPVYE EPVYEEVGAF PELTKDTTFS STWEWSAKSD PSLTSQRSFD QPPLSKASML GHEERIPDPP PGPPSKSSSQ ARGSLEEQLL QELNNLILRK GEPASCPESS SQPTSPQAPS PTSLPTPTPS LPTQPPCTSN PPSSQPLT

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.
- 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.

Product Details

- 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®): 1. 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. 2. 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)

Target Details

Target:	ARAP3
Alternative Name:	Arap3 (ARAP3 Products)
Background:	Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 3 (Centaurin-delta-3) (Cnt-d3) (Dual specificity Rho- and Arf-GTPase-activating protein 1),FUNCTION: Phosphatidylinositol 3,4,5-trisphosphate-dependent GTPase-activating protein that modulates actin cytoskeleton remodeling by regulating ARF and RHO family members. Is activated by phosphatidylinositol 3,4,5-trisphosphate (PtdIns(3,4,5)P3) binding. Can be activated by phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4,5)P2) binding, albeit with lower efficiency. Acts preferentially on ARF5 and on RHOA. {ECO:0000269|PubMed:15546919}.
Molecular Weight:	169.7 kDa

Target Details

UniProt:	Q8R5G7

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

