

Datasheet for ABIN3088202
ABR Protein (AA 1-859) (Strep Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	ABR
Protein Characteristics:	AA 1-859
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABR protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEPLSHRGLP RLSWIDTLYS NFSYGTDEYD GEGNEEQKGP PEGSETMPYI DESPTMSPQL SARSQGGGDG VSPTPPEGLA PGVEAGKGLE MRKLVLSGFL ASEEIYNQL EALLPMKPL KATATTSQPV LTIQQIETIF YKIQDIYEH KEFYDNLCPK VQQWDSQVTM GHLFQKLASQ LGVYKAFVDN YKVALETAEK CSQSNNQFQK ISEELKVKGK KDSKDSHTSV TMEALLYKPI DRVTRSTLVL HDLLKHTPVD HPDYPLLQDA LRISQNFLSS INEDIDPRRT AVTTPKGETR QLVKDGLFVE VSESSRKLRLH VFLFTDVLLC AKLKTSAGK HQQYDCKWYI PLADLVFPSP EESEASPQVH PFPDHELEDM KMKISALKSE IQKEKANKGQ SRAIERLKKK MFENEFLLLL NSPTIPFRIH NRNGKSYLFL LSSDYERSEW REAIQKLQKK DLQAFVLSSV ELQVLTGSCF KLRTVHNIPV TSNKDDDESP GLYGFLHVIV HSAKGFKQSA NLYCTLEVDS FG YFVSKAKT RVFRDTAEPK WDEEFEIELE GSQSLRILCY EKC YDKTKVN KDNNEIVDKI MGKGQIQLDP QTVETKNWHT DVIEMNGIKV EFSMKFTSRD MSLKRTPSKK QTGVFGVKIS VVTKRERSKV PYIVRQCVVE VEKRGIEEVG IYRISGVATD IQALKAVFDA NNKDILLMLS DMDINAAGT
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LKLYFRELPE PLLTDRLYPA FMEGIALSDP AAKENCMMHL LRSLPDPNLI TFLFLLLEHLK
RVAEKEPINK MSLHNLATVF GPTLLRPSEV ESKAHLTSAA DIWSDVMAQ VQVLLYYLQH
PPISFAELKR NTLYFSTDV

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.
- 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.

Product Details

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)
Grade:	Crystallography grade

Target Details

Target:	ABR
Alternative Name:	ABR (ABR Products)
Background:	Active breakpoint cluster region-related protein,FUNCTION: Protein with a unique structure having two opposing regulatory activities toward small GTP-binding proteins. The C-terminus is a GTPase-activating protein domain which stimulates GTP hydrolysis by RAC1, RAC2 and CDC42. Accelerates the intrinsic rate of GTP hydrolysis of RAC1 or CDC42, leading to down-regulation of the active GTP-bound form (PubMed:7479768, PubMed:17116687). The central Dbl homology (DH) domain functions as a guanine nucleotide exchange factor (GEF) that modulates the GTPases CDC42, RHOA and RAC1. Promotes the conversion of CDC42, RHOA and RAC1 from the GDP-bound to the GTP-bound form (PubMed:7479768). Functions as an important negative regulator of neuronal RAC1 activity (By similarity). Regulates macrophage functions such as CSF-1 directed motility and phagocytosis through the modulation of RAC1 activity (By similarity). {ECO:0000250 UniProtKB:Q5SSL4, ECO:0000269 PubMed:17116687, ECO:0000269 PubMed:7479768}.
Molecular Weight:	97.6 kDa
UniProt:	Q12979
Pathways:	Neurotrophin Signaling Pathway , Regulation of Leukocyte Mediated Immunity

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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Application Details

	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process