

Datasheet for ABIN7557531  
**ABR Protein (AA 1-859) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	ABR
Protein Characteristics:	AA 1-859
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABR protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Abr Protein expressed in mammalian cells.
Sequence:	MEPLSHRGLP RLSWIDTLYS NFSYGAEDYD AEGHEEQKGP PEGSETMPYI DESPTMSPQL SARSQGGGDS VSPTPPEGLA PGVEAGKGL MRKLVLSGFL ASEEIYNQL EALLPMKPL KATATTSQPV LTIQIETIF YKIQDIYEH KEFYDNLCPK VQQWDSQVTM GHLFQKLASQ LGVYKAFVDN YKVALETAEK CSQSNNQFQK ISEELKVKGP KDSKDSHTSV TMEALLYKPI DRVTRSTLVL HDLLKHTPVD HPDYPLLQDA LRISQNFLSS INEDIDPRRT AVTTPKGETR QLVKDGFVLE MESSRKL RH VLFDTDVLLC AKLKKT SAGK HQQYDCKWYI PLADLVFPSP EESEASPQVH PFPDHELED M KTKISALKSE IQKEKANKGQ SRAIERLK K MFENEFLLLL NSPTIPFRIH NRNGKSYLFL LSSDYERSEW REAIQKLQKK DLQAFVLSSV ELQVLTGSCF KLRTVHNIPV TSNKDDDESP GLYGFLHVIV HSAKGFKQSA NLYCTLEVDS FG YFVSKAKT RVFRDTTEPK WDEEFEIELE GSQSLRILCY EKYD KTKVN KDNNEIVDKI MGKGQIQ LDP QTVESKNWHT DVIEMNGIKV EFSMKFTSRD MSLKRTPSKK QTGVFGVKIS VVTKRERSKV

Product Details

PYIVRQCIEE VEKRGIEEVG IYRISGVATD IQALKAVFDA NNKDILLMLS DMDINAIAGT  
LKLYFRELPE PLLTDRLYP A FMEGIALSDP AAKENCMMHL LRSLPDPNLI TFLFLEHLK  
RVAEKEPINK MSLHNLATVF GPTLLRPSEV ESKAHLTSAA DIWSDVMAQ VQVLLYYLQH  
PPISFAELKR NTLYFSTDV **Sequence without tag. The proposed Purification-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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
------------------	---

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	ABR
Alternative Name:	Abr ( <a href="#">ABR Products</a> )
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. The central Dbl homology (DH) domain functions as 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-

## Target Details

bound form (By similarity). Functions as an important negative regulator of neuronal RAC1 activity (PubMed:20962234). Regulates macrophage functions such as CSF-1 directed motility and phagocytosis through the modulation of RAC1 activity (PubMed:17116687).  
{ECO:0000250|UniProtKB:Q12979, ECO:0000269|PubMed:17116687, ECO:0000269|PubMed:20962234}.

Molecular Weight:	97.7 kDa
UniProt:	<a href="#">Q5SSL4</a>
Pathways:	<a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a>

## 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