

Datasheet for ABIN7564649  
**AHI1 Protein (AA 1-1047) (His tag)**



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## Overview

Quantity:	1 mg
Target:	AHI1
Protein Characteristics:	AA 1-1047
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AHI1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Ahi1 Protein expressed in mammalien cells.
Sequence:	<p>MEPETPEKVD SAQEKVRGKT PTADDSDDSR EKTGIEEKGE LTDAYQLQVA EEMAKEIKKK IRKKLKEQLT YFPPDTLLHD DKLASEKRKK KKKKVPVPTK PESSPSDVCD SAVEGEQKKE GTPEDSQHME GICSREQDVD ATPENAKPK PKKTKKTKA VSNDNEDTNG DGVHEITSRD SPVHPKCLLD DDLVMGVYIH RTDRLKSDFM ISHPMVKIHV VDEHTGQYVK KDSERPVS YYEKDNVDYI LPIMTQPYDF KKLKSRLPEW EEQVIFNENF PYLLREFEEC PKVILFFEIL DFLSMDEIKN NSEVQNQECG FRKIAWAFLK LLGANGNANI NSKLRLQLYY PPTKPRSQLN VVEVFEWWSK CPRNRYSTL YVTVRGLKVP DCIKPSYRSM MALQEERGTP VYCERHRETS SVDTEPGLED SKEEVKWKRL PGQACRIPNK HLFSLNAGER GCFCLDFSHN GRILAAACAS RDGYPIILYE IPSGRFMREL CGHLNIIYDL DWSKDDRYLV TSSSDGTARV WKNEINSTST FRVLPHPFSV YTAKFHPATR ELVVTGCYDS MIRIWKIDAR EDAILVRQL DVHKSFVNSI CFDDEGHMY SGDCIGVIVV WDTYVKVNDV QTSVRHWTIN KEIKETFRG VPISYLEVHP</p>

## Product Details

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NGKRLLIHTK DSTLRIMDLR ILAARKFVGA ANYREKIHST LTPCGTLLFS GSEDGIVYVW  
NPETGEQVAM YSDLPFKSTI RDISYHPLEN MVAFCAFGQS EPILLYYDF QVAQQAEML  
KRYSGTLPLP GIHQSEDALC TCPKLPQQGS FQIDFVNTE NSSSRKIQLV KQRLETVTEV  
IRSCAAKVNK NLSMTSPPPG PAKKPRVKQS FVLTTDEIHH QFGLPQTAFI SIERGPFVRH  
VDPPPMVVAL YDYTASRSDE LTIHRGDIIR VYFKDNEDWW YGSRKGGQEG FFPANHVASE  
TLYRDSPPKV KERSPPLTPK EGTKPEKPLA SQKQSLSKGR PLDPRLGPQP VGHSEKGDQ  
NVEDRGHKVD METKKSEPVV RKVTLIE **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.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

AHI1

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### Alternative Name:

Ahi1 ([AHI1 Products](#))

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### Background:

Joubertin (Abelson helper integration site 1 protein) (AHI-1),FUNCTION: Involved in vesicle trafficking and required for ciliogenesis, formation of primary non-motile cilium, and recruitment of RAB8A to the basal body of primary cilium (PubMed:19625297). Component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier

## Target Details

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that prevents diffusion of transmembrane proteins between the cilia and plasma membranes (PubMed:22179047). Involved in neuronal differentiation (PubMed:23658157). As a positive modulator of classical Wnt signaling, may play a crucial role in ciliary signaling during cerebellum embryonic development (PubMed:21623382). {ECO:0000269|PubMed:19625297, ECO:0000269|PubMed:21623382, ECO:0000269|PubMed:22179047, ECO:0000269|PubMed:23658157}.

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Molecular Weight: 119.7 kDa

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UniProt: [Q8K3E5](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months