



[Go to Product page](#)

Datasheet for ABIN3088844
AHI1 Protein (AA 1-1196) (Strep Tag)

Overview

Quantity:	1 mg
Target:	AHI1
Protein Characteristics:	AA 1-1196
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AHI1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MPTAESEAKV KTKVRFELL KTHSDLMREK KKLKKKLVRS EENISPDTIR SNLHYMKETT
SDDPDTIRSN LPHIKETTS DVSAAANTNNL KKSTRVTKNK LRNTQLATEN PNGDASVEED
KQGKPNKKVI KTVPQLTTQD LKPETPENKV DSTHQKTHTK PQPGVDHQKS EKANEGREET
DLEEDEELMQ AYQCHVTEEM AKEIKRKIRK KLKEQLTYFP SDTLFHDDKL SSEKRKKKKE
VPVFSKAETS TLTISGDTVE GEQKKESSVR SVSSDSHQDD EISSMEQSTE DSMQDDTKPK
PKKTKKKTKA VADNNEDVDG DGVHEITSRD SPVYPKCLLD DDLVLGVYIH RTDRLKSDFM
ISHPMVKIHV VDEHTGQYVK KDDSGRPVSS YYEKENVDYI LPIMTQPYDF KQLKSRLPEW
EEQIVFNENF PYLLRGSDES PKVILFFEIL DFLSVDEIKN NSEVQNQECG FRKIAWAFK
LLGANANI NSKLRLQLYY PPTKPRSPLS VVEAFEWWSK CPRNHYPSTL YVTVRGLKVP
DCIKPSYRSM MALQEEKGKP VHCERHHESS SVDTEPLEE SKEVIKWKRL PGQACRIPNK
HLFSLNAGER GCFCLDFSHN GRILAAACAS RDGYPIILYE IPSGRFMREL CGHLNIIYDL
SWSKDDHYIL TSSSDGTARI WKNEINNTNT FRVLPHPSFV YTAKFHFAVR ELVVTGCYDS

MIRIWKVEMR EDSAILVRQF DVHKSFINSL CFDTEGHHMY SGDC TGVIVV WNTYVKINDL
EHSVHHWTIN KEIKETEFKG IPISYLEIHP NGKRLLIHTK DSTLRIMDLR ILVARKFVGA
ANYREKIHST LTPCGTFLFA GSEDGIVYVW NPETGEQVAM YSDLPFKSPI RDISYHPFEN
MVAFCAFGQN EPILLYYDF HVAQQEAEMF KRYNGTFPLP GIHQSDALC TCPKLPHQGS
FQIDFVHTE SSSTKMQLVK QRLETVTEVI RSCAAKNKN LSFTSPPAVS SQQSKLKQSN
MLTAQEILHQ FGFTQTGIIS IERKPCNHQV DTAPTVALY DYTANRSDEL TIHRGDIIRV
FFKDNEWWY GSIGKGQEGY FPANHVASET LYQELPPEIK ERSPPLSPEE KTKIEKSPAP
QKQSINKNKS QDFRLGSESM THSEMRKEQS HEDQGHIMDT RMRKNKQAGR KVTLIE

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!

Product Details

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:

AHI1

Alternative Name:

AHI1 ([AHI1 Products](#))

Background:

Joubertin (Abelson helper integration site 1 protein homolog) (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. Component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Involved in neuronal differentiation. As a positive modulator of classical Wnt signaling, may play a crucial role in ciliary signaling during cerebellum embryonic development (PubMed:21623382). {ECO:0000250|UniProtKB:Q8K3E5, ECO:0000269|PubMed:21623382}.

Molecular Weight:

137.1 kDa

UniProt:

[Q8N157](#)

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

Application Details

guarantee though.

Comment:

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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)