

Datasheet for ABIN7551894  
**ABI2 Protein (AA 1-513) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ABI2
Protein Characteristics:	AA 1-513
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABI2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat ABI2 Protein expressed in mammalien cells.
Sequence:	<p>MAELQMLLEE EIPGGRRALF DSYTNLERVA DYCENNYIQS ADKQRALEET KAYTTQSLAS  VAYLINTLAN NVLQMLDIQA SQLRRMESSI NHISQTVDIH KEKVARREIG ILTTNKNTSR  THKIIAPANL ERPVRYIRKP IDYTILDDIG HGVKWLLRFK VSTQNMKMGG LPRTTPPTQK  PPSPMSGKG TLGRHSPYRT LEPVRPPVVP NDYVPSPTRN MAPSQSPVR TASVNQRNRT  YSSSGSSGGS HPSSRSSSRE NSGSGSVGVP IAVPTSPSPS VFPAPAGSAG TPPLPATSAS  APAPLVPATV PSSTAPNAAA GGAPNLADGF TSPTPPVSS TPPTGHPVQF YSMNRPASRH  TPPTIGGSLP YRRPPSITSQ TSLQNQMNGG PFYSQNPVSD TPPPPPPVEE PVFDESPPPP  PPPEDYEEEE AAVEYSDPY AEEDPPWAPR SYLEKVAIY DYTKDKEDEL SFQEGAIYV  IKKNDDGWYE GVMNGVTGLF PGNVYESIMH YSE <b>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</b></p>

## Product Details

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### 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.

#### Purity:

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

#### Grade:

custom-made

## Target Details

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#### Target:

ABI2

#### Alternative Name:

ABI2 ([ABI2 Products](#))

#### Background:

Abl interactor 2 (Abelson interactor 2) (Abi-2) (Abl-binding protein 3) (AblBP3) (Arg-binding protein 1) (ArgBP1),FUNCTION: Regulator of actin cytoskeleton dynamics underlying cell motility and adhesion. Functions as a component of the WAVE complex, which activates actin nucleating machinery Arp2/3 to drive lamellipodia formation (PubMed:21107423). Acts as a regulator and substrate of nonreceptor tyrosine kinases ABL1 and ABL2 involved in processes linked to cell growth and differentiation. Positively regulates ABL1-mediated phosphorylation of ENAH, which is required for proper polymerization of nucleated actin filaments at the leading edge (PubMed:7590236, PubMed:8649853, PubMed:10498863). Contributes to the regulation of actin assembly at the tips of neuron projections. In particular, controls dendritic spine morphogenesis and may promote dendritic spine specification toward large mushroom-type spines known as repositories of memory in the brain (By similarity). In hippocampal neurons, may mediate actin-dependent BDNF-NTRK2 early endocytic trafficking that triggers dendrite

## Target Details

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outgrowth (By similarity). Participates in ocular lens morphogenesis, likely by regulating lamellipodia-driven adherens junction formation at the epithelial cell-secondary lens fiber interface (By similarity). Also required for nascent adherens junction assembly in epithelial cells (PubMed:15572692). {ECO:0000250|UniProtKB:P62484, ECO:0000269|PubMed:10498863, ECO:0000269|PubMed:15572692, ECO:0000269|PubMed:21107423, ECO:0000269|PubMed:7590236, ECO:0000269|PubMed:8649853}.

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Molecular Weight: 55.7 kDa

UniProt: [Q9NYB9](#)

## 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

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