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## Datasheet for ABIN7553000 **AGBL4 Protein (AA 1-503) (His tag)**

### Overview

Quantity:	1 mg
Target:	AGBL4
Protein Characteristics:	AA 1-503
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGBL4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat AGBL4 Protein expressed in mammalian cells.
Sequence:	MAEGSQSAPE AGNDMGNDDA IGGNVSKYIV LPTGYCGQPK KGHLIFDACF ESGNLGRVDQ VSEFEYDLFI RPDTCNPRFR VWFNFTVENV KESQRVIFNI VNFSKTKSLY RDGMAPMVKS TSRPKWQRLP PKNVYYRCP DHRKNYVMSF AFCFDREEDI YQFAYCYPYT YTRFQHLYLDS LQKRNDYFF REQLGQSVQQ RKL DLLTITS PDNLREGAEQ KVVFITGRVH PGETPSSFVC QGIIDFLVSQ HPIACVLREY LVFKIAPMLN PDGVYLGNYR CSLMGFDLNR HWLDPSPWVH PTLHGKQLI VQMYNDPKTS LEFYIDIAH STMMNGFMYG NIFEDEERFQ RQAIFPKLLC QNAEDFSYSS TSFNRAVKA GTGRRFLGGL LDHTSYCYTL EVSFYSYIIS GTTAAVPYTE EAYMKLGRNV ARTFLDYRRL NPVVEKVAIP MPRLRNKEIE VQRRKEKSPP YKHPLLRGPA SNYPNSKGDK KSSVNHKDPS TPF <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 contact us.</b>

## Product Details

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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

## Target Details

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### Target:

AGBL4

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### Alternative Name:

AGBL4 ([AGBL4 Products](#))

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### Background:

Cytosolic carboxypeptidase 6 (EC 3.4.17.24) (ATP/GTP-binding protein-like 4) (Protein deglutamylase CCP6),FUNCTION: Metalloprotease that mediates protein deglutamylation of tubulin and non-tubulin target proteins. Catalyzes the removal of polyglutamate side chains present on the gamma-carboxyl group of glutamate residues within the C-terminal tail of tubulin protein. Specifically cleaves tubulin long-side-chains, while it is not able to remove the branching point glutamate. Also catalyzes the removal of polyglutamate residues from the carboxy-terminus of non-tubulin proteins such as MYLK. Mediates the deglutamylation of nucleotidyltransferase CGAS, leading to CGAS antiviral defense response activation (By similarity). Involved in KLF4 deglutamylation which promotes KLF4 proteasome-mediated degradation, thereby negatively regulating cell pluripotency maintenance and embryogenesis (PubMed:29593216). {ECO:0000250|UniProtKB:Q09LZ8, ECO:0000269|PubMed:29593216}.

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### Molecular Weight:

58.2 kDa

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## Target Details

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UniProt: [Q5VU57](#)

## 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.

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