

Datasheet for ABIN7552511
ATG14 Protein (AA 1-492) (His tag)



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Overview

Quantity:	1 mg
Target:	ATG14
Protein Characteristics:	AA 1-492
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATG14 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATG14 Protein expressed in mammalian cells.
Sequence:	<p>MASPSGKGAR ALEAPGCGPR PLARDLVDSV DDAEGLYVAV ERCPLCNTTR RRLTCAKCVQ SGDFVYFDGR DRERFIDKKE RLSRLKSKQE EFQKEVLKAM EGKWITDQLR WKIMSCKMRI EQLKQTICKG NEEMEKNSEG LLKTKKKNQK LYSRAQRHQE KKEKIQRHNR KLGDLVEKKT IDLRSHYERL ANLRRSHILE LTVSIFPIEE VKTGVRDPAD VSSESDSAMT SSTVSKLAEA RRTTYLSGRW VCDDHNGDTS ISITGPWISL PNNGDYSAYY SWVEEKTTQ GPDMEQSNPA YTISAALCYA TQLVNILSHI LDVNLPKKLC NSEFCGENLS KQKFTRAVKK LNaNilylcf SQHVNLDQLQ PLHTLRNLMy LVSPSSEHLG RSGPFVVRAD LEESMEFVDP GVAGESDESG DERVSDEETD LGTDWENLPS PRFCDIPSQS VEVSSQSQSTQ ASPPIASSSA GGMISAAAAS VTSWFKAYTG HR 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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

ATG14

Alternative Name:

ATG14 ([ATG14 Products](#))

Background:

Beclin 1-associated autophagy-related key regulator (Barkor) (Autophagy-related protein 14-like protein) (Atg14L),FUNCTION: Required for both basal and inducible autophagy. Determines the localization of the autophagy-specific PI3-kinase complex PI3KC3-C1 (PubMed:18843052, PubMed:19050071). Plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine (PubMed:19270696, PubMed:20713597). Promotes BECN1 translocation from the trans-Golgi network to autophagosomes (PubMed:20713597). Enhances PIK3C3 activity in a BECN1-dependent manner. Essential for the autophagy-dependent phosphorylation of BECN1 (PubMed:23878393). Stimulates the phosphorylation of BECN1, but suppresses the phosphorylation PIK3C3 by AMPK (PubMed:23878393). Binds to STX17-SNAP29 binary t-SNARE complex on autophagosomes and primes it for VAMP8 interaction to promote autophagosome-endolysosome fusion (PubMed:25686604, PubMed:37632749). Modulates the hepatic lipid metabolism (By similarity). {ECO:0000250|UniProtKB:Q8CDJ3,

Target Details

ECO:0000269|PubMed:18843052, ECO:0000269|PubMed:19050071,
ECO:0000269|PubMed:19270696, ECO:0000269|PubMed:20713597,
ECO:0000269|PubMed:23878393, ECO:0000269|PubMed:25686604,
ECO:0000269|PubMed:37632749}.

Molecular Weight: 55.3 kDa

UniProt: [Q6ZNE5](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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