antibodies

## Datasheet for ABIN3089789 Beclin 1 Protein (AA 134-450) (His tag)

Image



Overview

Quantity:	1 mg	
Target:	Beclin 1 (BECN1)	
Protein Characteristics:	AA 134-450	
Origin:	Human	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This Beclin 1 protein is labelled with His tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	

## Product Details

Sequence:	HPLCEECTDT LLDQLDTQLN VTENECQNYK RCLEILEQMN EDDSEQLQME LKELALEEER		
	LIQELEDVEK NRKIVAENLE KVQAEAERLD QEEAQYQREY SEFKRQQLEL DDELKSVENQ		
	MRYAQTQLDK LKKTNVFNAT FHIWHSGQFG TINNFRLGRL PSVPVEWNEI NAAWGQTVLL		
	LHALANKMGL KFQRYRLVPY GNHSYLESLT DKSKELPLYC SGGLRFFWDN KFDHAMVAFL		
	DCVQQFKEEV EKGETRFCLP YRMDVEKGKI EDTGGSGGSY SIKTQFNSEE QWTKALKFML		
	TNLKWGLAWV SSQFYNK		
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a		
	Sequence without tay. Tay location is at the discretion of the manufacturer. If you have a		
	special request, please contact us.		

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Product Details		
	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.	
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything	
	(other companies might charge you for any performed steps in the expression process for	
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression	
	experiments or purification optimization).	
	When you order this made-to-order protein you will only pay upon receival of the correctly	
	folded protein. With no financial risk on your end you can rest assured that our experienced	
	protein experts will do everything to make sure that you receive the protein you ordered.	
	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.	
	The concentration of the protein is calculated using its specific absorption coefficient. We use	
	the Expasy's protparam tool to determine the absorption coefficient of each protein.	
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:	
	1. In a first purification step, the protein is purified from the cleared cell lysate using three	
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
- 		
Sterility:	0.22 μm filtered	
Endotoxin Level:	Protein is endotoxin free.	
Grade:	Crystallography grade	
Target Details		
Target:	Beclin 1 (BECN1)	
Alternative Name:	BECN1 (BECN1 Products)	
Background:	Plays a central role in autophagy (PubMed:23184933). Acts as core subunit of the PI3K	

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	complex that mediates formation of phosphatidylinositol 3-phosphate, different complex forms		
	are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in		
	initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and		
	endocytosis. Involved in regulation of degradative endocytic trafficking and required for the		
	abcission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123,		
	PubMed:20208530). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex		
	forms. Involved in endocytosis (PubMed:25275521). Protects against infection by a		
	neurovirulent strain of Sindbis virus (PubMed:9765397). May play a role in antiviral host		
	defense. {EC0:0000269 PubMed:20208530, EC0:0000269 PubMed:20643123,		
	ECO:0000269 PubMed:23184933, ECO:0000269 PubMed:25275521,		
	ECO:0000269 PubMed:9765397, ECO:0000305}., Beclin-1-C 35 kDa localized to mitochondria		
	can promote apoptosis, it induces the mitochondrial translocation of BAX and the release of		
	proapoptotic factors. {ECO:0000269 PubMed:21364619, ECO:0000269 PubMed:26263979}.		
Molecular Weight:	38.3 kDa Including tag.		
UniProt:	Q14457		
Pathways:	Autophagy		

## 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 guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

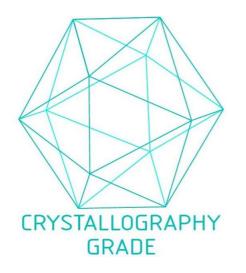
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 Storage Comment:
 Store at -80°C.

 Expiry Date:
 Unlimited (if stored properly)

Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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