



# Recombinant Human Autophagy-related protein 16-1 (ATG16L1)

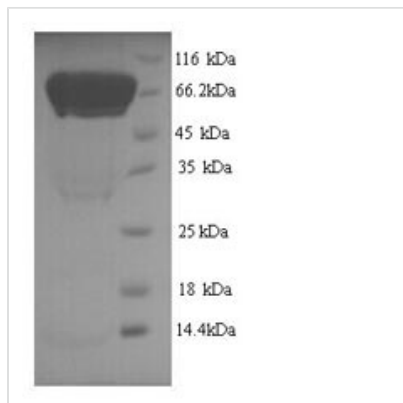
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| <b>Product Code</b>      | CSB-YP734569HU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Relevance</b>         | Plays an essential role in autophagy: interacts with ATG12-ATG5 to mediate the conjugation of phosphatidylethanolamine (PE) to LC3 (MAP1LC3A, MAP1LC3B or MAP1LC3C), to produce a mbrane-bound activated form of LC3 named LC3-II. Thereby, controls the elongation of the nascent autophagosomal mbrane.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Abbreviation</b>      | Recombinant Human ATG16L1 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Uniprot No.</b>       | Q676U5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Alias</b>             | APG16-like 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Immunogen Species</b> | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>            | ≥ 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Sequence</b>          | MSSGLRAADFPRWKRHISEQLRRRDRLQRQAFEEIILQYNKLLEKSDLHSVLA<br>QKLQAEKHDPNRHEISPGHDGTWNDNQLQEMAQLRIKHQEELTELHKKRGE<br>LAQLVIDLNNQMQRKDREMQMNEAKIAECLQTISDLETECLDLRTKLCDLERA<br>NQTLKDEYDALQITFTALEGKLRKTTEENQELVTRWMAEKAQEANRLNAENEK<br>DSRRRQARLQKELAEAAKEPLPVEQDDIEVIVDETSDHTEETSPVRAISRAAT<br>KRLSQPAGGLDSITNIFGRRSVSSFPVPQDNVDTHPGSGKEVRVPATALCVF<br>DAHDGEVNAVQFSPGSRLLATGGMDDRRVKLWEVFGEKCEFKGSLSGSNAGIT<br>SIEFDSAGSYLLAASNDFASRIWTVDYRLRHTLTGHSGKVLSAKFLLDNARIV<br>SGSHDRTLKLWDLRSKVCIKTVFAGSSCNDIVCTEQCVMSGHFDKKIRFWDIR<br>SESIVREMELLGKITALDLNPERTELLSCSRDCLKVIDLRTNAIKQTF SAPGFK<br>CGSDWTRVVFSPDGSYVAAGSAEGSLYIWSVLTGKVEKVL SKQHSSSINAVA<br>WSPSGSHVVSVDKGCKAVLWAQY |
| <b>Research Area</b>     | Cancer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Target Names</b>      | ATG16L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Names</b>     | Recommended name: Autophagy-related protein 16-1 Alternative name(s):<br>APG16-like 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Expression Region</b> | 1-607aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Tag Info</b>          | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



**Mol. Weight** 70.3kDa

**Protein Length** Full Length

**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.