

Recombinant Candida Glabrata ATG1 Protein (11-312 aa), His-SUMO-tagged

Cat. No. ATG1-1039C **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Candida Glabrata (strain ATCC 2001/CBS 138/JCM 3761/NBRC 0622/NRRL Y-65) (Yeast) (*Torulopsis glabrata*) ATG1 Protein (11-312 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Partial.

Species

Candida Glabrata

Source

E.coli

ProteinLength

11-312 aa

Description

Serine/threonine protein kinase involved in the cytoplasm to vacuole transport (Cvt) and found to be essential in autophagy, where it is required for the formation of autophagosomes. Involved in the clearance of protein aggregates which cannot be efficiently cleared by the proteasome. Required for selective autophagic degradation of the nucleus (nucleophagy) as well as for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Also involved in endoplasmic reticulum-specific autophagic process, in selective removal of ER-associated degradation (ERAD) substrates. Plays a key role in ATG9 and ATG23 cycling through the pre-autophagosomal structure and is necessary to promote ATG18 binding to ATG9 through phosphorylation of ATG9.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

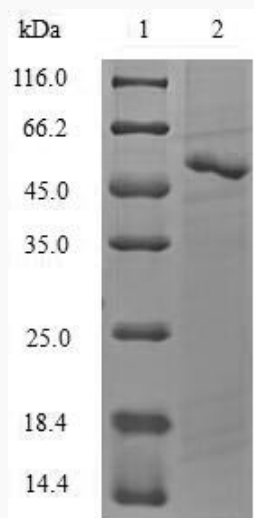
 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Tris-based buffer, 50% glycerol
Molecular Mass	50.4 kDa
AA Sequence	YVVEKEIGKGSFATVYRGHVTTDPKSHIAVKAVARSKLKNKKLLENLEIEIAILKKIKHP HIVGLIDCERTTTDFYLVMDYCALGDLTFLIKKRKELENNHPLLQTVFNKYPPPSKEH NGLNRAFVVCYLQQLASALKFLRSKNLVHRDIKPQNLLLATPLTNYRDSKTFHELGY VGIYNLPILKIADFGFARFLPSTSLAETLCGSPLYMAPEILNYQKYNADLWSVGTVL FEMCCGVPPFTASNHLELFKKIKRAHDEINFPEVCEVEDGLKELICSLLTFDPAKRIGF EEFFNNKIV
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.
GENE INFORMATION	
UniProt ID	Q6FL58

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

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