

Recombinant Human ATG10, GST-tagged

Cat. No. ATG10-9968H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATG10 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-220a.a.
Description	Autophagy is a process for the bulk degradation of cytosolic compartments by lysosomes. ATG10 is an E2-like enzyme involved in 2 ubiquitin-like modifications essential for autophagosome formation: ATG12 (MIM 609608)-ATG5 (MIM 604261) conjugation and modification of a soluble form of MAP-LC3 (MAP1LC3A; MIM 601242), a homolog of yeast Apg8, to a membrane-bound form (Nemoto et al., 2003 [PubMed 12890687]).
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	ATG10 ATG10 autophagy related 10 homolog (S. cerevisiae) [Homo sapiens]
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Official Symbol	ATG10
Synonyms	ATG10; ATG10 autophagy related 10 homolog (S. cerevisiae); APG10 autophagy 10 like (S. cerevisiae) , APG10L; ubiquitin-like-conjugating enzyme ATG10; DKFZP586I0418; FLJ13954; autophagy-related protein 10; APG10; APG10L; pp12616; DKFZp586I0418;
Gene ID	83734
mRNA Refseq	NM_001131028
Protein Refseq	NP_001124500
MIM	610800
UniProt ID	Q9H0Y0
Chromosome Location	5q14.1
Pathway	Senescence and Autophagy, organism-specific biosystem;
Function	Atg12 ligase activity; ligase activity;