



# ATG12 Antibody

<b>Product Code</b>	CSB-RA002283A0HU
<b>Abbreviation</b>	Ubiquitin-like protein ATG12
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	O94817
<b>Immunogen</b>	A synthesized peptide derived from human ATG12
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA
<b>Relevance</b>	Ubiquitin-like protein involved in autophagy vesicles formation. Conjugation with ATG5 through a ubiquitin-like conjugating system involving also ATG7 as an E1-like activating enzyme and ATG10 as an E2-like conjugating enzyme, is essential for its function. The ATG12-ATG5 conjugate acts as an E3-like enzyme which is required for lipidation of ATG8 family proteins and their association to the vesicle membranes.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	Ubiquitin-like protein ATG12, Autophagy-related protein 12, APG12-like, ATG12, APG12, APG12L
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cell Biology
<b>Gene Names</b>	ATG12
<b>Accession NO.</b>	2F6

## Description

CUSABIO clones the DNA sequence encoding human ATG12 protein into the expression vector and then transfects the clones into the cell line for in vitro production to get the ATG12 recombinant monoclonal antibody. This ATG12 antibody has undergone Affinity-chromatography purification. It can react with human ATG12 protein and has been validated in ELISA assay.

The ATG5-ATG12-ATG16 complex acts as a ubiquitin-like conjugation system that contributes to the elongation of the isolated membrane and autophagosome maturation. The conjugation of ATG5 with ATG12 is catalyzed by ATG7 and ATG10. ATG5-ATG12 is also involved in autophagosome-lysosome fusion.