

## Atg5 Polyclonal Antibody

### ORDERING INFORMATION

**Catalog No.**    **Size**  
23005            100ug

**Format:** Peptide affinity-purified antibody in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide.

**Concentration:** 1mg/ml

### BACKGROUND

Autophagy is a catabolic process that results in the degradation of bulk cytoplasmic contents within autophagosomes and lysosomes. The protein encoded by the *Atg5* gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Two transcript variants encoding different protein isoforms have been found for this gene.

### SPECIFICATION SUMMARY

**Antigen:** Synthetic peptide corresponding to amino acids at the N-terminus of human Atg5.

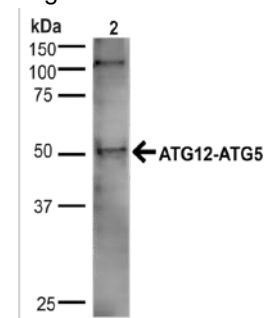
**Accession no.** NP\_001273035.1    **Gene ID** 9474    **SwissProt** Q9H1Y0

**Host Species:** Rabbit

**Specificity:** This antibody recognizes human Atg5.

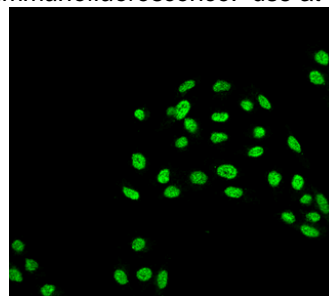
### APPLICATIONS

**Immunoblotting:** use at 1-2ug/ml. A band of ~50kDa, corresponding to Atg12-Atg5 complex, is detected. Note: the predicted molecular weight of ATG5 is ~32kDa.



Detection of Atg5-ATG12 in 20ug of HeLa cell lysate.

**Immunofluorescence:** use at 10ug/ml.



Detection of Atg5 in formaldehyde-fixed HeLa cells.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*