# Atg4C Polyclonal Antibody

## ORDERING INFORMATION

| Catalog No. | Size |
|---|---|
| 23002 | 100ug |

**Format:** Peptide affinity-purified antibody in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide.
**Concentration**: 1mg/ml

## BACKGROUND

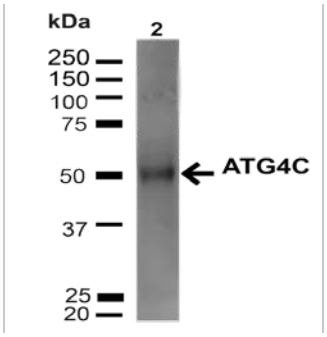
Autophagy is a catabolic process that results in the degradation of bulk cytoplasmic contents within autophagosomes and lysosomes. Atg4C is a homolog of yeast Apg4, a cysteine protease involved in autophagy. The deduced 458-amino acid protein contains a putative active-site cysteine at position 110. Atg4C shares significant similarity with yeast Apg4, except for divergence at its N- and C-terminal ends. The absence of an N-terminal signal sequence suggests that Atg4C is a cytoplasmic enzyme. Northern blot analysis detected a 3.5-kb transcript in many tissues, with highest expression in skeletal muscle, heart, liver, and testis. It was also detected in some tumor cell lines, but not in fetal tissues.

## SPECIFICATION SUMMARY

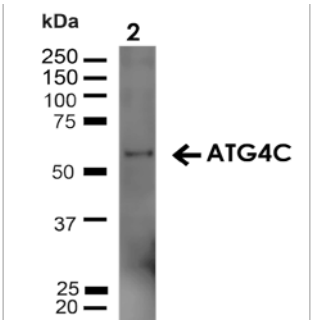
**Antigen:** Synthetic peptide corresponding to amino acids at the N-terminus of human Atg4C.
**Accession no**. NP_116241.2 **Gene ID** 84938 **SwissProt** Q96DT6
**Host Species:** Rabbit
**Specificity:** This antibody recognizes human and rat Atg4C.

## APPLICATIONS

*Immunoblotting:* use at 1-2ug/ml. A band of ~52kDa is detected.




Detection of Atg4C in 20ug of 293T cell lysate.




Detection of Atg4C in 20ug rat liver lysate.

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.*

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