

## AP45919PU-N

## Polyclonal Antibody to APG4C / ATG4C - Aff - Purified

### Alternate names:

AUT-like 3 cysteine endopeptidase, AUTL1, AUTL3, Autophagin-3, Autophagy-related cysteine endopeptidase 3, Autophagy-related protein 4 homolog C, Cysteine protease ATG4C

### Quantity:

50 µg

### Background:

Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes. It is highly expressed in skeletal muscle, heart, liver and testis.

### Uniprot ID:

[Q96DT6](#)

### NCBI:

[NP\\_116241.2](#)

### GeneID:

[84938](#)

### Host:

Rabbit

### Immunogen:

Synthetic peptide directed towards the middle region of human ATG4C

#### AA Sequence:

TISLKETIGKYSDDHEMRNEVYHRKIIISWFGDSPLALFGLHQLIEYGKKS

### Format:

**State:** Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Purification:** Purified using peptide immunoaffinity column

### Applications:

Western blotting (0.2 - 1 µg/ml).

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

### Species Reactivity:

**Tested:** Human.

**Expected from sequence similarity:** Dog

### Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

### General Readings:

"Human autophagins, a family of cysteine proteinases potentially implicated in cell degradation by autophagy." Marino G., Uria J.A., Puente X.S., Quesada V., Bordallo J., Lopez-Otin C. J. Biol. Chem. 278:3671-3678(2003)

**Pictures:**

WB Suggested Anti-ATG4C Antibody  
Titration: 0.2-1 ug/ml; ELISA Titer:  
1:62500; Positive Control: 721\_B cell  
lysate

