

## Product Datasheet

# Atg4A Antibody

Catalog No: CY7052

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC IP



[www.abways.com](http://www.abways.com)

### Information

**UniProt ID:** Q8WYN0

**All Names:** Apg4a; ATG4A; Atg4a1; AUT like 2 cysteine endopeptidase; Autl2; Autophagin 2; Autophagin-2; Autophagy related 4A cysteine peptidase;

**Form:** Liquid

**Storage instructions:** Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**Storage buffer:** pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Purity:** Affinity-chromatography

**Immunogen:** A synthesized peptide

**Molecular Wt.:** 45kDa

### Application

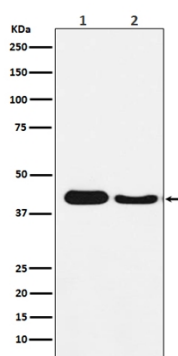
WB 1:500~1:2000

IHC 1:50~1:200

IP 1:50

### Background

The cysteine protease Atg4 is pivotal to autophagosome membrane generation and regulation. Atg4 primes the Atg8 homologue for lipidation by cleaving its carboxy terminus and exposing its glycine residue for E1-like enzyme Atg7. The Atg8 homologue is transferred to the E2-like enzyme Atg3 before forming the Atg8-PE conjugate. During later stages of autophagy, Atg4 can reverse this lipidation event by cleaving PE, thereby recycling the Atg8 homologue.



Western blot analysis of Atg4A expression in (1) HepG2 cell lysate; (2) Mouse brain lysate.

**For Research Use Only. Not For Use In Diagnostic Procedures.**

[www.abways.com](http://www.abways.com)