

# [KO Validated] ATG4D Rabbit pAb

Catalog No.: A18097 **KO** Validated

## Basic Information

**Catalog No.**

A18097

**Observed MW**

53kDa

**Calculated MW**

16kDa/52kDa

**Category**

Primary antibody

**Applications**

WB, IF

**Cross-Reactivity**

Human, Mouse, Rat

## Recommended Dilutions

<b>WB</b>	1:500 - 1:2000
<b>IF</b>	1:50 - 1:200

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## 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 belongs to the autophagy-related protein 4 (Atg4) family of C54 endopeptidases. Members of this family encode proteins that play a role in the biogenesis of autophagosomes, which sequester the cytosol and organelles for degradation by lysosomes. Alternative splicing results in multiple transcript variants.

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
84971	Q86TL0

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 1-230 of human ATG4D (NP\_116274.3).

**Synonyms**

ATG4D;APG4-D;APG4D;AUTL4

## Product Information

<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

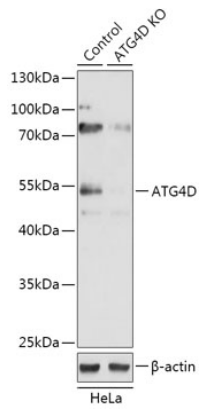
**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Validation Data

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Western blot analysis of extracts from normal (control) and ATG4D knockout (KO) HeLa cells, using ATG4D antibody (A18097) at 1:500 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 3min.