

Product Name: KD-Validated Atg4C Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01269**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:2,000-1:10,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 52.5kDa

Antigen Information

Gene Name	ATG4C
Alternative Names	ATG4C; Autophagy Related 4C Cysteine Peptidase; AUTL3; APG4C; AUTL1; Autophagy-Related Cysteine Endopeptidase 3; Autophagy-Related Protein 4 Homolog C; AUT-Like 3 Cysteine Endopeptidase; Cysteine Protease ATG4C; Autophagin-3; FLJ14867; HsAPG4C; AUT (S. Cerevisiae)-Like 1, Cysteine Endopeptidase; AUT-Like 1, Cysteine Endopeptidase (S. Cerevisiae); ATG4 Autophagy Related 4 Homolog C (S. Cerevisiae); APG4 Autophagy 4 Homolog C (S. Cerevisiae); Epididymis Secretory Sperm Binding Protein; Autophagy Related 4C, Cysteine Peptidase; ATG4 Autophagy Related 4 Homolog C; AUT-Like 1, Cysteine; Endopeptidase; APG4 Autophagy 4 Homolog C; EC 3.4.22.-; EC 3.4.22; APG4-C
Gene ID	84938.0
SwissProt ID	Q96DT6

Immunogen

A synthesized peptide derived from human ATG4C

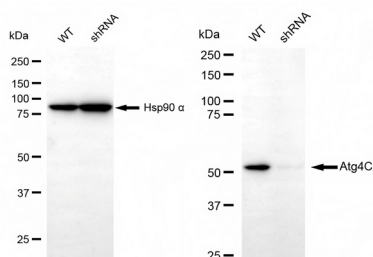
Background

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. Alternate transcriptional splice variants, encoding the same protein, have been characterized. [provided by RefSeq, Jul 2008]

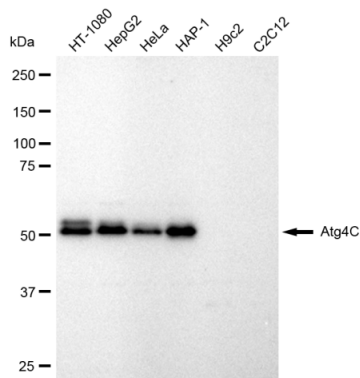
Research Area

Cancer, Cell Biology, Cardiovascular, Metabolism

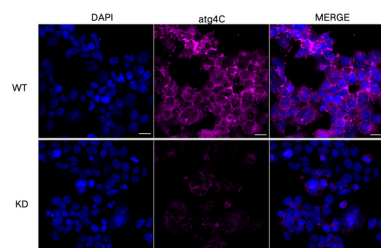
Image Data



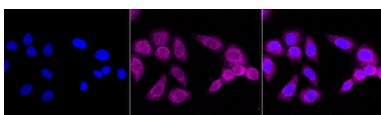
Western blotting analysis using Atg4C antibody (KVAb01269). Atg4C expression in wild type (WT) and ATG4C shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Atg4C antibody (KVAb01269, 1:10,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Atg4C antibody (KVAb01269). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Atg4C antibody (KVAb01269, 1:10,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



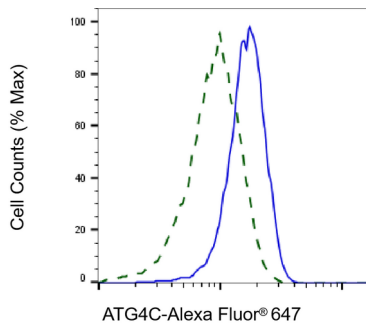
Immunocytochemical staining of HeLa cells using atg4C antibody (KVAb01269, 1:1,000), Top panel: wild-type (WT); Bottom panel: atg4C shRNA knockdown (KD). Nuclei were stained blue with DAPI; Atg4C was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



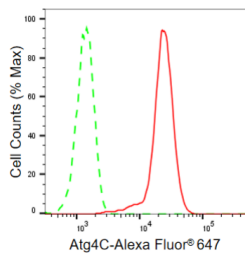
Immunocytochemical staining of HepG2 cells with Atg4C antibody (KVAb01269, 1:1,000). Nuclei were stained blue with DAPI; Atg4C was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on

laser Intensity and smart gain:

Very low. Scale bar: 20 μm .



Validation of ATG4C knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with ATG4C antibody (KVA01269, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Atg4C expression in HepG2 cells using Atg4C antibody (KVA01269, 1:2,000). Green, isotype control; red, Atg4C.