Anti-ATG4C Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013997

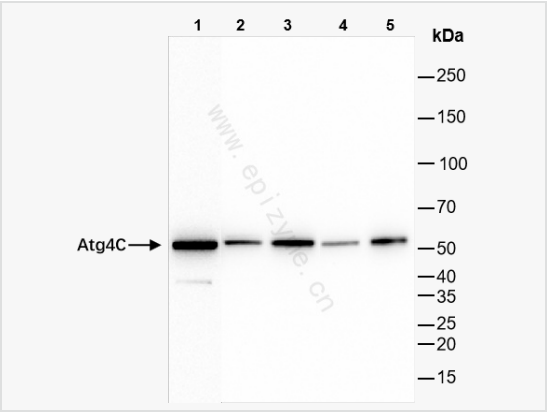
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	87R86G27
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Atg4C
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ATG4C Rabbit mAb [87R86G27] is for research use only and not for use in diagnostic or therapeutic procedures.

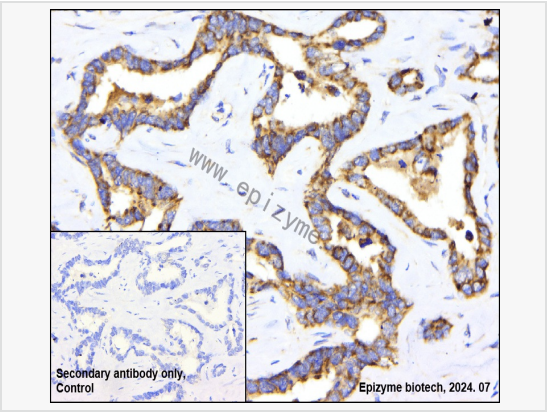
Protein Information

Synonyms	APG4 autophagy 4 homolog C (S. cerevisiae), APG4 autophagy 4 homolog C, APG4 C, APG4-C, APG4C, ATG 4C, ATG4 autophagy related 4 homolog C (S. cerevisiae), ATG4 autophagy related 4 homolog C, Atg4c, ATG4C_HUMAN, AUT (S. cerevisiae) like 1, cysteine endopeptidase, AUT like 1, cysteine endopeptidase (S. cerevisiae), AUT like 1, cysteine endopeptidase, AUT like 3 cysteine endopeptidase, AUT-like 3 cysteine endopeptidase, AUTL1, AUTL3, Autophagin 3, Autophagin-3, Autophagy related 4C cysteine peptidase, Autophagy related cysteine endopeptidase 3, Autophagy related protein 4 homolog C, Autophagy-related cysteine endopeptidase 3, Autophagy-related protein 4 homolog C, Cysteine protease ATG4C, EC 3.4.22, FLJ14867, OTTHUMP00000010715.
Calculated MW	Calculated MW: 52 kDa; Observed MW: 52 kDa
Uniprot ID	Q96DT6
Gene ID	84938
Background	Cysteine protease required for autophagy, 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.
Cellular Location	Cytoplasm.
Tissue Location	Highly expressed in skeletal muscle, heart, liver and testis.

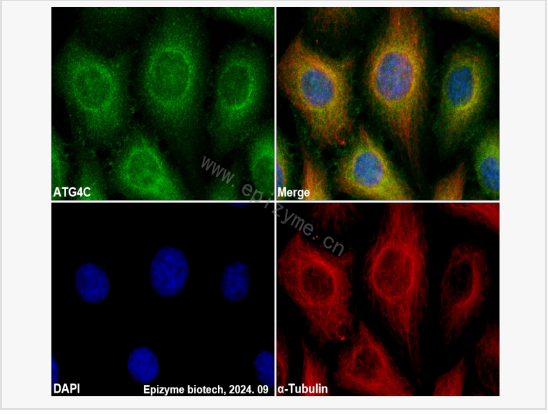
Validation Images



Western Blot - Anti-ATG4C Rabbit mAb [87R86G27]
All lanes: R013997 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 52 kDa
Observed band size: 52 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-ATG4C Rabbit mAb [87R86G27]
Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013997 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-ATG4C Rabbit mAb [87R86G27]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013997 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).