

Anti-ATG4B Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

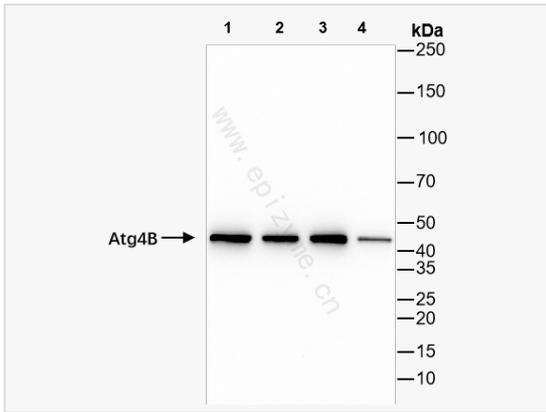
Catalog # R013996

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
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.	25O16T81
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Atg4B
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-ATG4B Rabbit mAb [25O16T81] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	APG4 autophagy 4 homolog B, APG4B, ATG4 autophagy related 4 homolog B (S. cerevisiae), ATG4B, ATG4B_HUMAN, AUT like 1 cysteine endopeptidase, AUT-like 1 cysteine endopeptidase, AUTL1, Autophagin 1, Autophagin-1, Autophagy related 4B cysteine peptidase, Autophagy related cysteine endopeptidase 1, Autophagy related protein 4 homolog B, Autophagy-related cysteine endopeptidase 1, Autophagy-related protein 4 homolog B, Cysteine protease ATG4B, hAPG4B, MGC1353.
Calculated MW	Calculated MW: 44 kDa; Observed MW: 44 kDa
Uniprot ID	Q9Y4P1
Gene ID	23192
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).
Cellular Location	Cytoplasm.
Tissue Location	Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas.



Western Blot - Anti-ATG4B Rabbit mAb [25O16T81]

All lanes: R013996 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

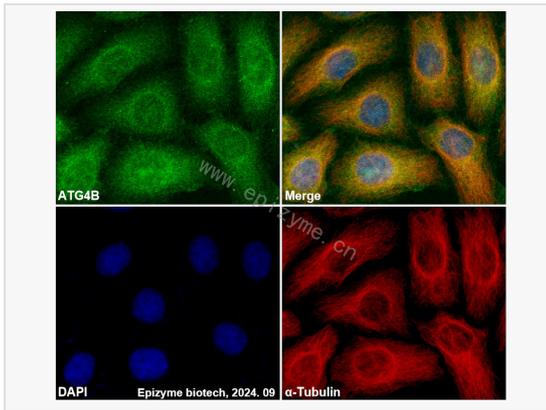
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 44 kDa

Observed band size: 44 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-ATG4B Rabbit mAb [25O16T81]

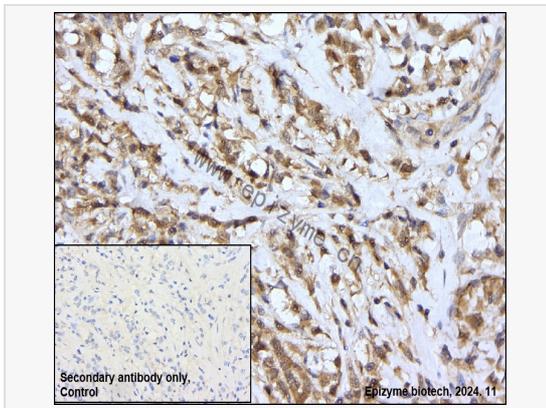
Sample: HeLa cells

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: R013996 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).



Immunohistochemistry - Anti-ATG4B Rabbit mAb [25O16T81]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

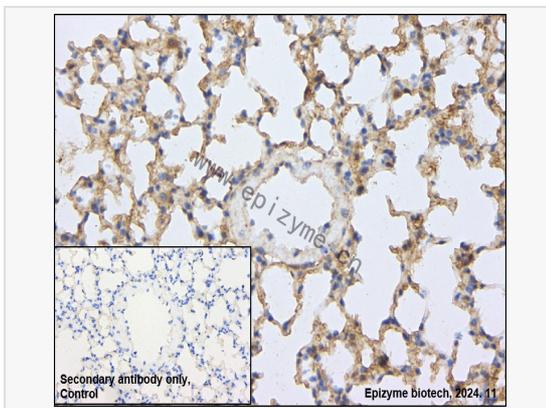
Primary antibody: R013996 at 1:200 dilution

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.



Immunohistochemistry - Anti-ATG4B Rabbit mAb [25O16T81]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse lung tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

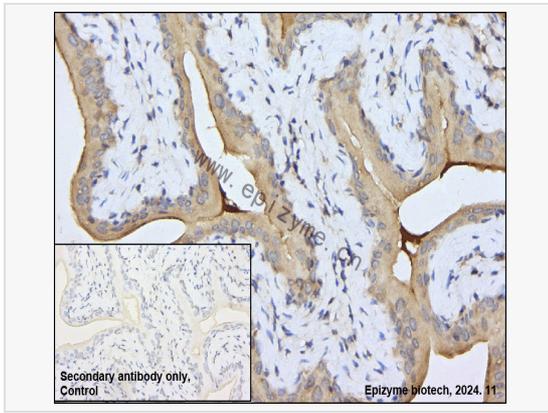
Primary antibody: R013996 at 1:200 dilution

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.



Immunohistochemistry - Anti-ATG4B Rabbit mAb [25O16T81]
Sample: Paraformaldehyde-fixed, paraffin embedded rat bladder tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013996 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.