Anti-ATG7 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011774

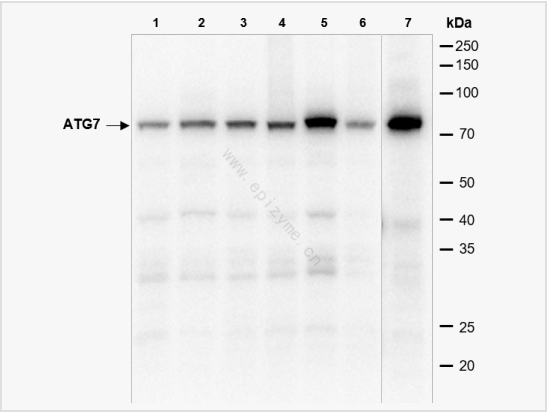
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:10,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	96L82K04
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Apg7
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-ATG7 Rabbit mAb [96L82K04] is for research use only and not for use in diagnostic or therapeutic procedures.

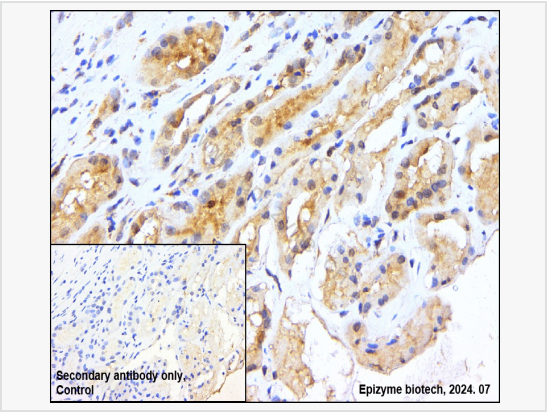
Protein Information

Synonyms	1810013K23Rik, Apg 7, APG7 autophagy 7 like, APG7 autophagy 7-like (S. cerevisiae), APG7 like, APG7, S. cerevisiae, homolog of, APG7-like, APG7L, ATG 7, ATG12-activating enzyme E1 ATG7, ATG7, ATG7 autophagy related 7 homolog (S. cerevisiae), ATG7 autophagy related 7 homolog, ATG7_HUMAN, Atg7l, Autophagy 7, S. cerevisiae, homolog of, Autophagy related protein 7, Autophagy-related 7 (yeast), Autophagy-related protein 7, DKFZp434N0735, GSA 7, GSA7, hAGP7, Ubiquitin activating enzyme E1 like protein, Ubiquitin-activating enzyme E1-like protein, Ubiquitin-like modifier-activating enzyme ATG7.
Calculated MW	Calculated MW: 78 kDa; Observed MW: 78 kDa
Uniprot ID	O95352
Gene ID	10533
Background	The molecular machinery of autophagy was largely discovered in yeast and referred to as autophagy-related (Atg) genes. Formation of the autophagosome involves a ubiquitin-like conjugation system in which Atg12 is covalently bound to Atg5 and targeted to autophagosome vesicles. This conjugation reaction is mediated by the ubiquitin E1-like enzyme Atg7 and the E2-like enzyme Atg10.
Cellular Location	Cytoplasm. Preautophagosomal structure. Localizes also to discrete punctae along the ciliary axoneme and to the base of the ciliary axoneme.
Tissue Location	Widely expressed, especially in kidney, liver, lymph nodes and bone marrow.

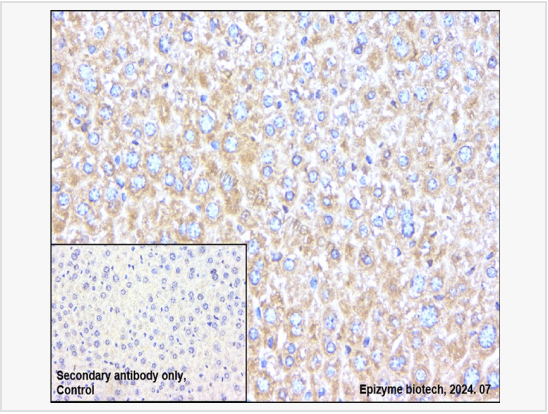
Validation Images



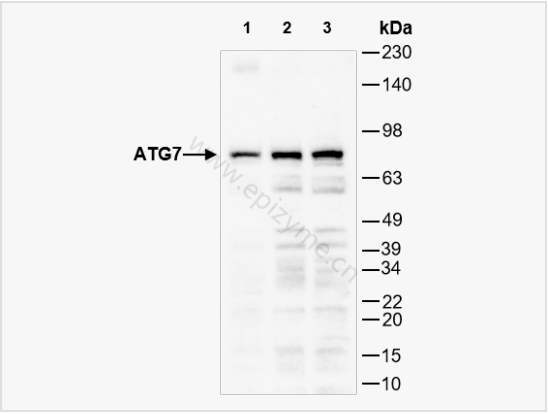
Western Blot - Anti-ATG7 Rabbit mAb [96L82K04]
All lanes: R011774 at 1:10,000 dilution
Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: A549 (human non-small cell lung cancer epithelial cell) whole cell lysates
Lane 3: Jurkat (human T lymphocytic leukemia cell) whole cell lysates
Lane 4: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5: T24 (human bladder cancer epithelial cell) whole cell lysates
Lane 6: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 7: Rat brainwhole tissue 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: 78 kDa
Observed band size: 78 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-ATG7 Rabbit mAb [96L82K04]
Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011774 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-ATG7 Rabbit mAb [96L82K04]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse liver tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011774 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.



Western Blot - Anti-ATG7 Rabbit mAb [96L82K04]
All lanes: R011774 at 1:10,000 dilution
Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell)whole cell lysates
Lane 3: PC-12(Rat adrenal pheochromocytoma 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: 78 kDa
Observed band size: 78 kDa
Developed using the ECL technique (Cat. No. SQ201).