

## [KO Validated] Anti-ATG5 Rabbit pAb

Purified Rabbit Polyclonal Antibody

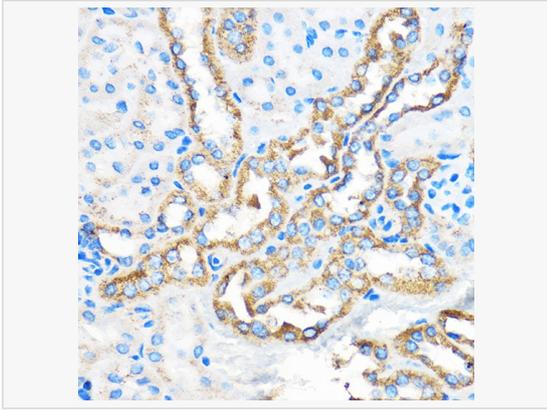
Catalog # P100065

### Product Information

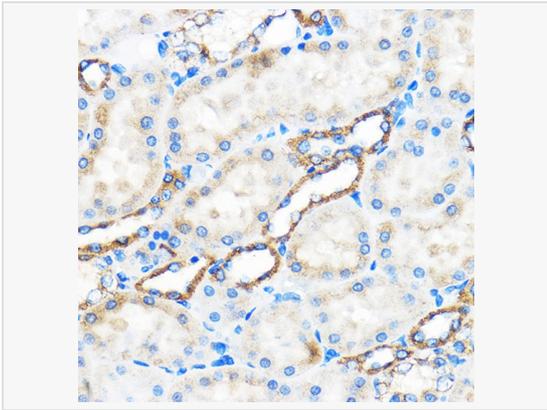
Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:1,000; IHC-P 1:50~1:200; IF 1:50~1:200
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-275 of human ATG5 (NP_004840.1).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% 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-ATG5 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

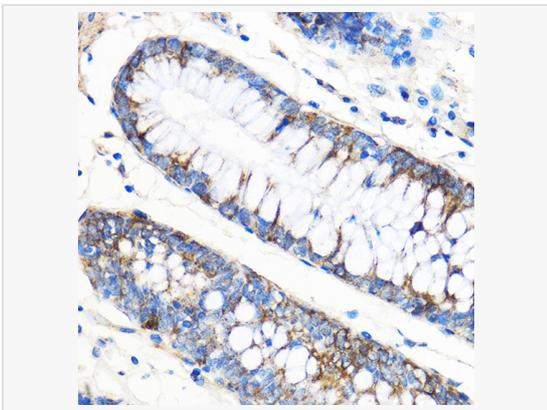
Synonyms	ASP; APG5; APG5L; hAPG5; SCAR25; APG5-LIKE; ATG5.
Calculated MW	Calculated MW: 32 kDa; Observed MW: 55 kDa/
Uniprot ID	Q9HIY0
Gene ID	9474
Background	The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene.



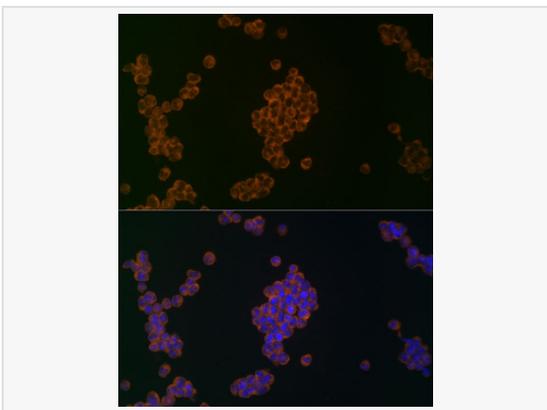
Immunohistochemistry analysis of paraffin-embedded Mouse kidney using ATG5 Rabbit pAb (P100065) at dilution of 1:50 (40× lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



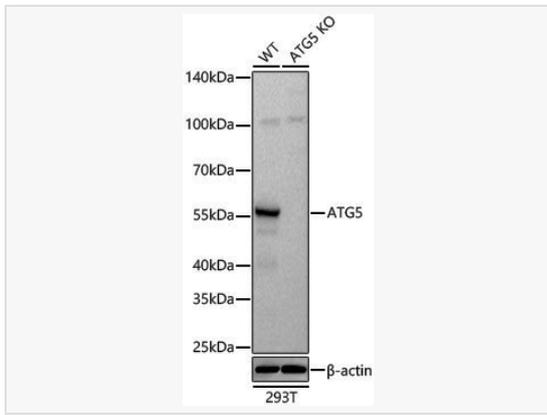
Immunohistochemistry analysis of paraffin-embedded Rat kidney using ATG5 Rabbit pAb (P100065) at dilution of 1:50 (40× lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon using ATG5 Rabbit pAb (P100065) at dilution of 1:50 (40× lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunofluorescence analysis of K-562 cells using ATG5 Rabbit pAb (P100065) at dilution of 1:50 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



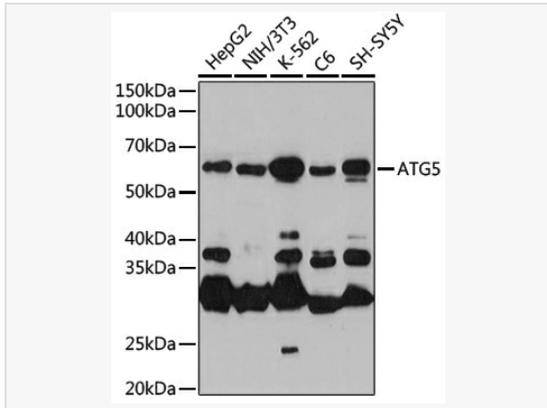
Western blot analysis of lysates from wild type (WT) and ATG5 knockout (KO) 293T cells using ATG5 Rabbit pAb (P100065) at 1:1,000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Kit.

Exposure time: 10s.



Western blot analysis of various lysates using ATG5 Rabbit pAb (P100065) at 1:1,000 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Kit.

Exposure time: 90s.