

For Research Use Only

# ATG5 Recombinant antibody

Catalog Number: 81803-1-RR **Featured Product**



## Basic Information

**Catalog Number:**

81803-1-RR

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0214

**GenBank Accession Number:**

BC002699

**GeneID (NCBI):**

9474

**UNIPROT ID:**

Q9H1Y0

**Full Name:**

ATG5 autophagy related 5 homolog  
(S. cerevisiae)

**Calculated MW:**

32 kDa

**Observed MW:**

50-55 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

5M5

**Recommended Dilutions:**

WB 1:5000-1:50000  
IP 0.5-4.0 µg for 1.0-3.0 mg of total  
protein lysate  
IHC 1:500-1:2000

## Applications

**Tested Applications:**

WB, IP, IHC, ELISA

**Species Specificity:**

Human, mouse, rat

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

**Positive Controls:**

**WB:** HeLa cells, Jurkat cells, HepG2 cells, A549 cells,  
NIH/3T3 cells, RAW 264.7 cells, HSC-T6 cells, PC-12  
cells

**IP:** HeLa cells,

**IHC:** human ovary tumor tissue,

## Background Information

ATG5, also named as APG5L and ASP, belongs to the ATG5 family. It is required for autophagy. It plays an important role in the apoptotic process, possibly within the modified cytoskeleton. Its expression is a relatively late event in the apoptotic process, occurring downstream of caspase activity. Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents. Formation of the autophagosome involves a ubiquitin-like conjugation system in which Atg12 is covalently bound to Atg5 and targeted to autophagosome vesicles. It mediates autophagosome-independent host protection. This antibody is raised against 28-275 amino acids of human ATG5. It can recognize the ATG5-ATG12 complex (55 kDa) which can be truncated and generate a 40-45 kDa band.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

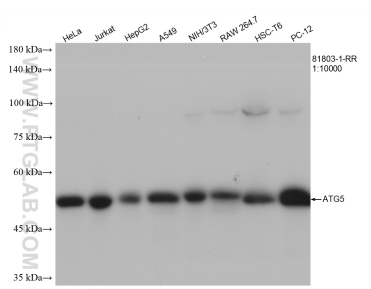
T: 4006900926

E: Proteintech-CN@ptglab.com

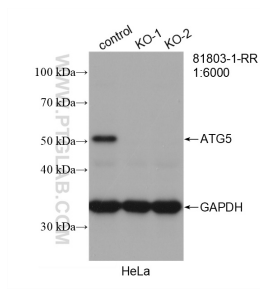
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

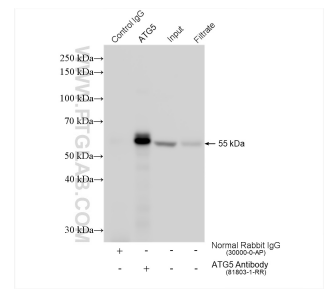
## Selected Validation Data



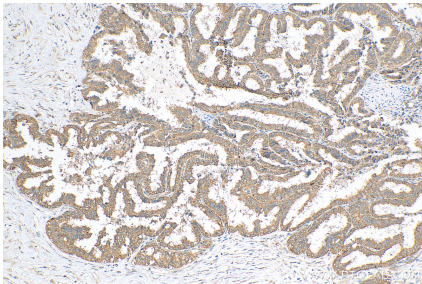
Various lysates were subjected to SDS PAGE followed by western blot with 81803-1-RR (ATG5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of ATG5 antibody (81803-1-RR; 1:6000; room temperature for 1.5 hours) with wild-type and ATG5 knockout HeLa cells.



IP result of anti-ATG5 (IP:81803-1-RR, 4ug; Detection:81803-1-RR 1:2000) with HeLa cells lysate 1280 ug.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 81803-1-RR (ATG5 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).