

For Research Use Only

ATG5 Recombinant antibody

Catalog Number: 81803-1-RR

Featured Product

1 Publications



Basic Information

Catalog Number:

81803-1-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Zixuan Wang	40017402	J Agric Food Chem	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

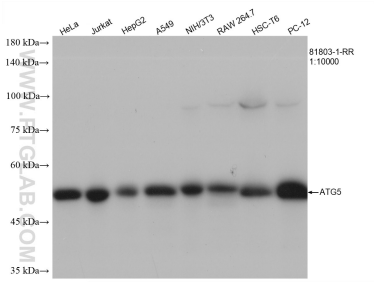
For technical support and original validation data for this product please contact:

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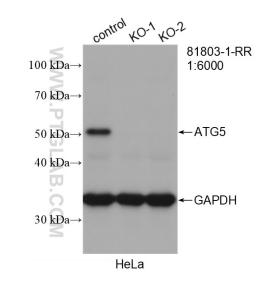
E: proteintech@ptglab.com
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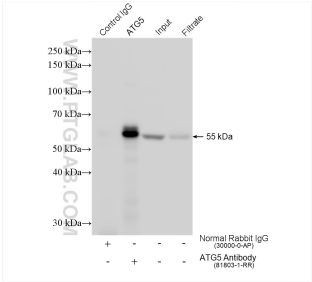
Selected Validation Data



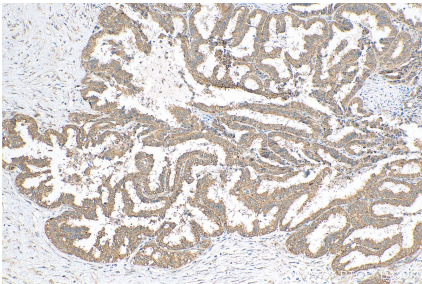
Various lysates were subjected to SDS PAGE followed by western blot with 81803-1-RR (ATG5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



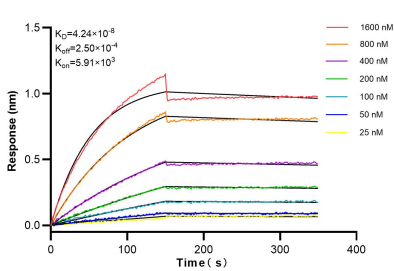
WB result of ATG5 antibody (81803-1-RR; 1:6000; room temperature for 1.5 hours) with wild-type and ATG5 knockout HeLa cells.



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).



Biolayer interferometry (BLI) kinetic assays of 81803-1-RR against Human ATG5 were performed. The affinity constant is 42.4 nM.