

For Research Use Only

ATG5 Polyclonal antibody

Catalog Number: 10181-2-AP

Featured Product

362 Publications



Basic Information

Catalog Number:

10181-2-AP

Size:

150ul, Concentration: 950 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:

32 kDa, 40-45 kDa, 50-55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:5000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, IHC-IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, monkey, chicken, bovine, hamster, goat, grouper

Positive Controls:

WB: A549 cells, HeLa cells, mouse kidney tissue, HepG2 cells

IP: HeLa cells,

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. 10181-2-AP also recognizes the free ATG5 (32 kDa).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|---------------|-------------|
| Zeen Zhu | 36248959 | Front Oncol | WB |
| Samana Batool | 30274346 | Int J Mol Sci | WB |
| Jiawei Hao | 36126167 | Autophagy | 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

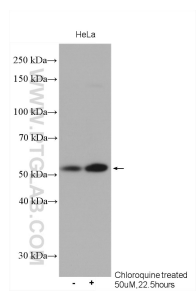
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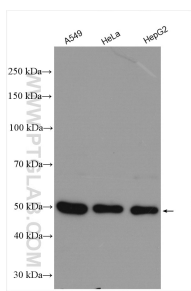
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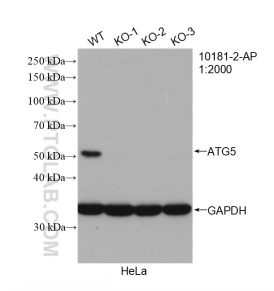
Selected Validation Data



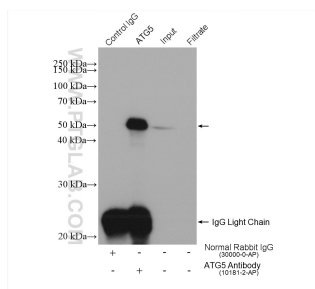
HeLa cells were subjected to SDS PAGE followed by western blot with 10181-2-AP (ATG5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10181-2-AP (ATG5 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



WB result of ATG5 antibody (10181-2-AP; 1:2000; room temperature for 1.5 hours) with wild-type and ATG5 knock-out HeLa cells.



IP result of anti-ATG5 (IP:10181-2-AP, 4 μg; Detection:10181-2-AP 1:3000) with HeLa cells lysate 1760 μg.