ATG5
Polyclonal ANTIBODY
Catalog Number: 10181-2-AP

Basic Information
Catalog Number: 10181-2-AP
Size: 40 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG0214
GenBank Accession Number: BC002699
GeneID (NCBI): 9474
Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500
IF 1:20-1:200

Applications
Tested Applications:
IF, IHC, WB, ELISA
Cited Applications:
FC, IF, IHC, WB
Species Specificity:
human, mouse, rat
Cited Species:
human, monkey, mouse, rat

Background Information
ATG5, also named as ATG5L 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
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<th>Author</th>
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<th>Journal</th>
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<tbody>
<tr>
<td>Samana Batool</td>
<td>30274346</td>
<td>Int J Mol Sci</td>
<td>WB</td>
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<tr>
<td>Jianhai Zhang</td>
<td>28927274</td>
<td>J Agric Food Chem</td>
<td>WB</td>
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<tr>
<td>Hao Wang</td>
<td>29163781</td>
<td>Oncotarget</td>
<td>WB</td>
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Storage
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% 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: 1-888-4PTGLAB (1-888-478-4522) (toll free in USA), or 1-312-455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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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.

WB result of ATG5 antibody (10181-2-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATG5 transfected HepG2 cells.

SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 10181-2-AP ATG5 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

mouse kidney tissue were subjected to SDS PAGE followed by western blot with 10181-2-AP ATG5 antibody at dilution of 1:100 incubated at room temperature for 1.5 hours.

IF result of anti-ATG5 (10181-2-AP) with E15 mouse cortical neurons.

Immunohistochemistry of paraffin-embedded human colon cancer tissue slide using 10181-2-AP ATG5 antibody at dilution of 1:200 (under 10x lens).

Immunohistochemistry of paraffin-embedded human colon cancer tissue slide using 10181-2-AP ATG5 antibody at dilution of 1:200 (under 40x lens).