### For Research Use Only

# ATG5 Polyclonal antibody

Catalog Number:10181-2-AP

**Featured Product** 

276 Publications



**Basic Information** 

Catalog Number: GenBank Accession Number:

10181-2-AP BC002699
Size: Genel D (NCBI):

150ul , Concentration: 650 µg/ml by 9474 Nanodrop; UNIPROT ID:

Source: Q9H1Y0
Rabbit Full Name:

Isotype: ATG5 autophagy related 5 homolog

IgG (S. cerevisiae)
Immunogen Catalog Number: Calculated MW:
AG0214 32 kDa

Observed MW:

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

**Applications** 

Tested Applications: WB, IP, FC, IHC, ELISA

Cited Applications: WB, IF, FC, IHC Species Specificity:

human, mouse, rat Cited Species:

human, goat, chicken, rat, mouse, monkey, hamster,

pig, bovine, grouper

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: A549 cells, HeLa cells, mouse kidney tissue,

**Purification Method:** 

WB 1:1000-1:5000

protein lysate

IHC 1:50-1:500

Antigen affinity purification

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

HepG2 cells

IP: HeLa cells,

IHC: human colon cancer tissue, human gliomas 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. 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

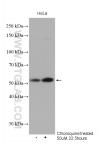
\*\*\* 20ul sizes contain 0.1% BSA

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

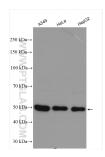
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

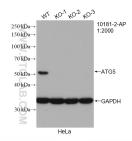
### Selected Validation Data



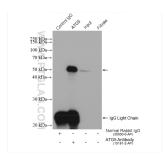
HeLa cells were subjected to SDS PAGE followed by western blot with 10181-2-AP (ATG5 antibody) at dilution of 1:500 incubated at room temperature for



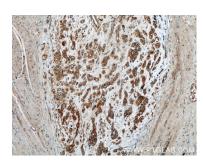
Various lysates were subjected to SDS PAGE followed by western blot with 10181-2-AP (ATG5 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours



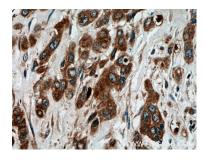
WB result of ATG5 antibody (10181-2-AP; 1:2000; room temperature for 1.5 hours) with wild-type and ATG5 knockout HeLa cells.



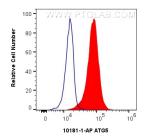
IP result of anti-ATG5 (IP:10181-2-AP, 4ug; Detection:10181-2-AP 1:3000) with HeLa cells lysate 1760 ug.



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



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



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human ATG5 (10181-2-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit 1gG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).