

For Research Use Only

ATG5 Polyclonal antibody

Catalog Number: 10181-2-AP

Featured Product

256 Publications



Basic Information

Catalog Number: 10181-2-AP	GenBank Accession Number: BC002699	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 650 µg/ml by Nanodrop;	GeneID (NCBI): 9474	Recommended Dilutions: WB 1:1000-1:5000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	Full Name: ATG5 autophagy related 5 homolog (S. cerevisiae)	
Isotype: IgG	Calculated MW: 32 kDa	
Immunogen Catalog Number: AG0214	Observed MW: 32 kDa, 40-45 kDa, 50-55 kDa	

Applications

Tested Applications: FC, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: FC, IF, IHC, WB	WB : A549 cells, HeLa cells, mouse kidney tissue, HepG2 cells
Species Specificity: human, mouse, rat	IP : HeLa cells,
Cited Species: human, goat, chicken, rat, mouse, monkey, pig, bovine, grouper	IHC : human colon cancer tissue, human gliomas tissue

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

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 autophagosome-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

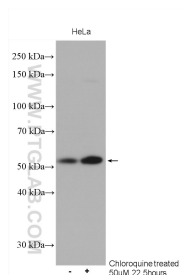
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1%BSA

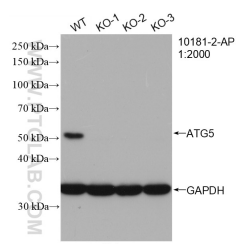
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

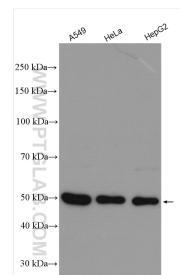
Selected Validation Data



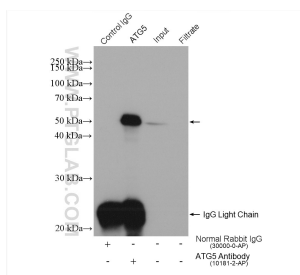
HeLa cells were subjected to SDS PAGE followed by western blot with 10181-2-AP (ATG5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



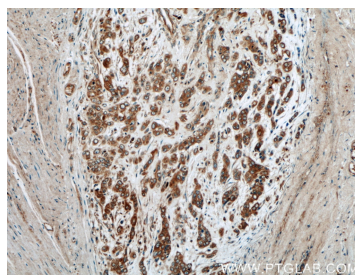
WB result of ATG5 antibody (10181-2-AP; 1:2000; room temperature for 1.5 hours) with wild-type and ATG5 knockout HeLa cells.



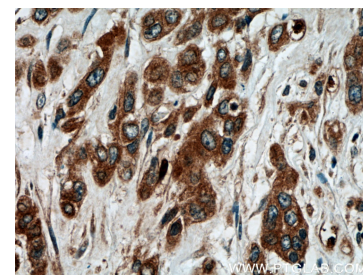
Various lysates were subjected to SDS PAGE followed by western blot with 10181-2-AP (ATG5 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



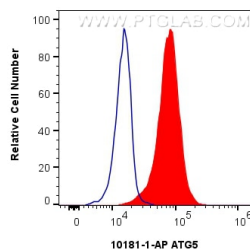
IP result of anti-ATG5 (IP:10181-2-AP, 4 μg; Detection:10181-2-AP 1:3000) with HeLa cells lysate 1760 μg.



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



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



1X10⁶ HepG2 cells were intracellularly stained with 0.4 μg Anti-Human ATG5 (10181-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 μg Rabbit IgG control Rabbit PolyAb (30000-O-AP, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).