

ATG5 Polyclonal Antibody

Catalog number: 10181-2-AP

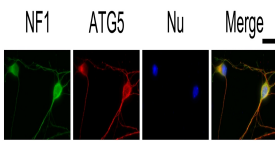
Size: 40 µg/150 µl

Source: Rabbit

Isotype: IgG

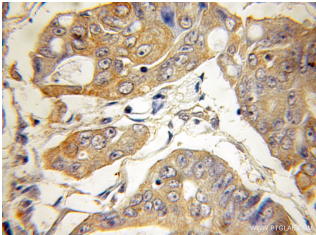
Synonyms:

ATG5; APG5, APG5 LIKE, APG5L, Apoptosis specific protein, ASP, ATG5, Autophagy protein 5, hAPG5

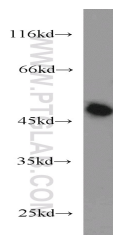


E15 mouse cortical neurons were stained w neurofilament & ATG5.

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



Immunohistochemical of paraffin-embedded human colon cancer using 10181-2-AP(ATG5 antibody) at dilution of 1:50 (under 10x lens)



mouse kidney tissue were subjected to SDS PAGE followed by western blot with 10181-2-AP(ATG5 antibody) at dilution of 1:1000

Background

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) and free ATG5 (32 kDa).

Applications

Tested applications:	ELISA, WB, IHC, IF
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, rat
Calculated ATG5 MW:	32 kDa
Observed ATG5 MW:	50-55kd
Positive WB detected in	Mouse kidney tissue, human brain tissue, Raji cells
Positive IHC detected in	Human colon cancer tissue
Positive IF detected in	Mouse cortical neurons
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0214
GenBank accession number:	BC002699
Gene ID (NCBI):	9474
Full name:	ATG5 autophagy related 5 homolog (<i>S. cerevisiae</i>)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.