

ATG5 polyclonal antibody

Catalog: AP6026

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Autophagy is a catabolic process for the autophagosome-lysosomal degradation of bulk cytoplasmic contents. Autophagy is generally activated by conditions of nutrient deprivation but has also been associated with a number of physiological processes including development, differentiation, neurodegeneration, infection, and cancer. The molecular machinery of autophagy was largely discovered in yeast and referred to as autophagy-related (Atg) genes. Formation of the autophagosome involves a ubiquitin-like conjugation system in which Atg12 is covalently bound to Atg5 and targeted to autophagosome vesicles. This conjugation reaction is mediated by the ubiquitin E1-like enzyme Atg7 and the E2-like enzyme Atg10.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 55 kDa

Swiss-Prot:

Q9H1Y0

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:200

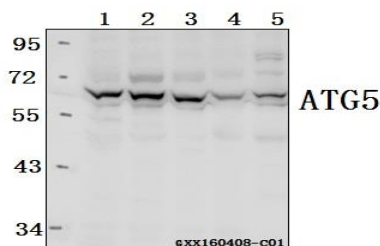
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

ATG5 polyclonal antibody detects endogenous levels of ATG5 protein.

DATA:



Western blot (WB) analysis of ATG 5 polyclonal antibody at 1:1000 dilution

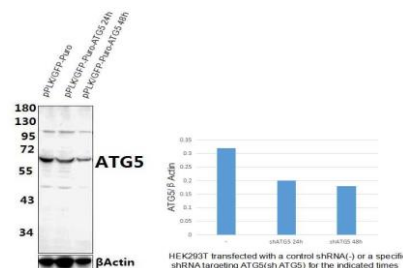
Lane1:HCT116 whole cell lysate(40ug)

Lane2:MCF-7 whole cell lysate(30ug)

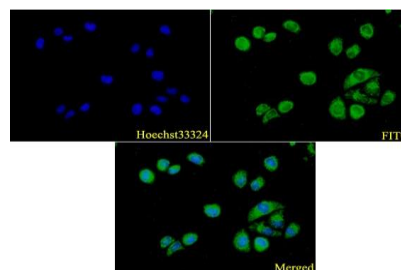
Lane3:SK-OVCAR3 whole cell lysate(40ug)

Lane4:C6 whole cell lysate(40ug)

Lane5:The brain tissue lysate of Mouse(40ug)



Western blot analysis of extracts from HEK293T cells transfected with control shRNA (-) (Lane 1) or ATG5 shRNA (+) (Lane 2-3). ATG5 was detected using ATG5 pAb #AP6026. The ATG5 Antibody confirms silencing of ATG5 expression.



IF image of AP6026 stained A549 cells. The cells were 4% paraformaldehyde fixed (20 min) and then incubated in 10% normal goat serum for 1h to permeabilise the cells and block non-specific protein-protein.

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PRODUCT DATA SHEET

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interactions. The cells were then incubated with the antibody ATG5 #AP6026(1:200) at 5 µg/ml overnight at +4 °C. The secondary antibody (Green) was Goat Anti-Rabbit IgG (H+L) FITC #BS10950 used at a 1/1000 dilution for 1h. Hoechst33342 #BD5011 was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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