Product Datasheet

ATG5 antibody

Catalog No: #39202

Package Size: #39202-1 50ul #39202-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	ATG5 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF,IHC
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total ATG5 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human ATG5.
Target Name	ATG5
Other Names	ATG5;APG5;APG5-LIKE;APG5L;ASP;hAPG5;
Accession No.	Swiss-Prot#: Q9H1Y0NCBI Gene ID: 9474
Uniprot	Q9H1Y0
GeneID	9474;
SDS-PAGE MW	55KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

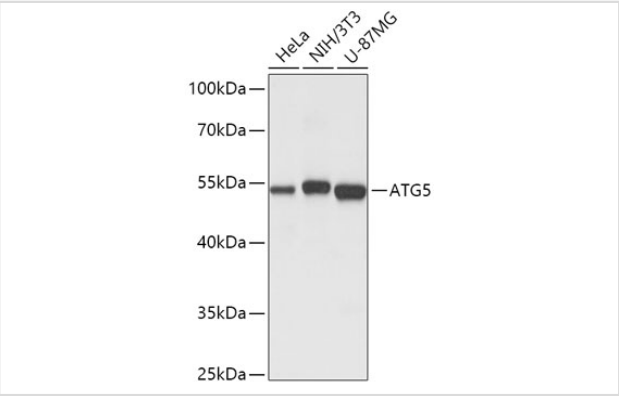
Application Details

WB□1:500 - 1:2000

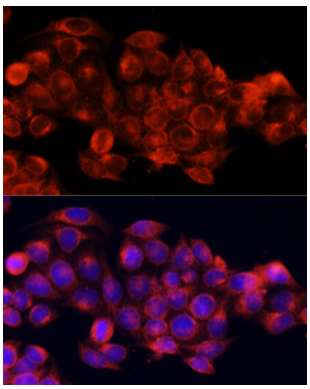
IF□1:50 - 1:200

IHC 1:50 - 1:200

Images



Western blot analysis of extracts of various cell lines, using ATG5 at 1:1000 dilution.



Immunofluorescence analysis of HeLa cells using ATG5 at dilution of 1:100. Blue: DAPI for nuclear staining.

Background

Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents (1,2). 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 (3). 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 (4-6). This conjugation reaction is mediated by the ubiquitin E1-like enzyme Atg7 and the E2-like enzyme Atg10 (7,8).

Note: This product is for in vitro research use only