Datasheet for ABIN3020674

anti-ATG5 antibody (AA 1-275)

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Overview

Quantity:	100 µL
Target:	ATG5
Binding Specificity:	AA 1-275
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-275 of human ATG5 (NP_004840.1).
Sequence:	MTDDKDVLRD VWFGRIPTCF TLYQDEITER EAEPYYLLLP RVSYLTLVTD KVKKHFQKVM RQEDISEIWF EYEGTPLKWH YPIGLLFDLL ASSSALPWNI TVHFKSFPEK DLLHCPSKDA IEAHFMSCMK EADALKHKSQ VINEMQKKDH KQLWMGLQND RFDQFWAINR KLMEYPAEEN GFRYIPFRIY QTTTERPFIQ KLFRPVAADG QLHTLGDLLK EVCPSAIDPE DGEKKNQVMI HGIEPMLETP LQWLSEHLSY PDNFLHISII PQPTD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	ATG5
Alternative Name:	ATG5 (ATG5 Products)
Background:	The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene.,ATG5,APG5,APG5-LIKE,APG5L,ASP,hAPG5,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Apoptosis,Autophagy,Ubiquitin,Endocrine & Metabolism,Mitochondrial metabolism,Immunology & Inflammation,Cardiovascular,Heart,ATGs,ATG5
Molecular Weight:	22 kDa/32 kDa
Gene ID:	9474
UniProt:	Q9H1Y0
Pathways:	Activation of Innate immune Response, Production of Molecular Mediator of Immune Response , Autophagy

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

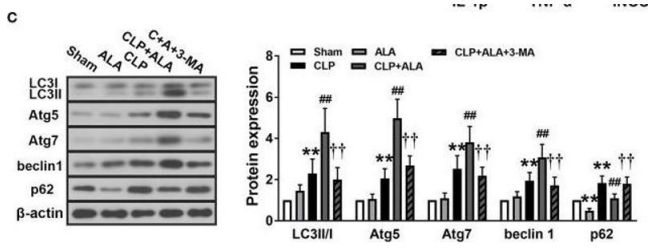
Handling

Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

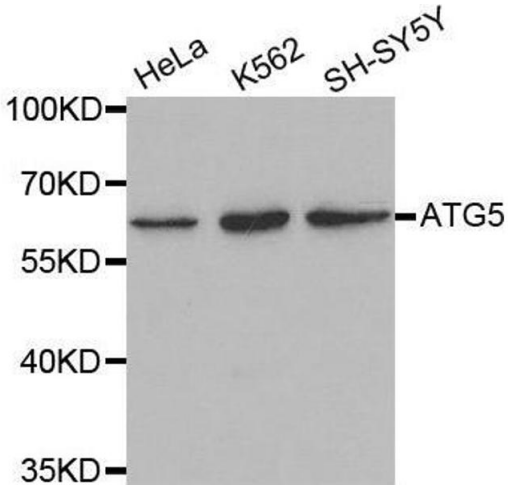
Product cited in:	Yuan, Liu, Yu, Yin, Peng, Gao, Zhu, Cao, Yang, Fan, Li: "FOXM1 contributes to taxane resistance by regulating UHRF1-controlled cancer cell stemness." in: **Cell death & disease**, Vol. 9, Issue 5, pp. 562, (2018) (PubMed). Hu, Xia, Wu, Li, Qi, Hu, Wei, Li, Tian, Wei, Shen, Yin, Jiang, Yuan, Qiang, Han, Peng: "NSPc1 promotes cancer stem cell self-renewal by repressing the synthesis of all-trans retinoic acid via targeting RDH16 in malignant glioma." in: **Oncogene**, Vol. 36, Issue 33, pp. 4706-4718, (2017) (PubMed). There are more publications referencing this product on: Product page

Images



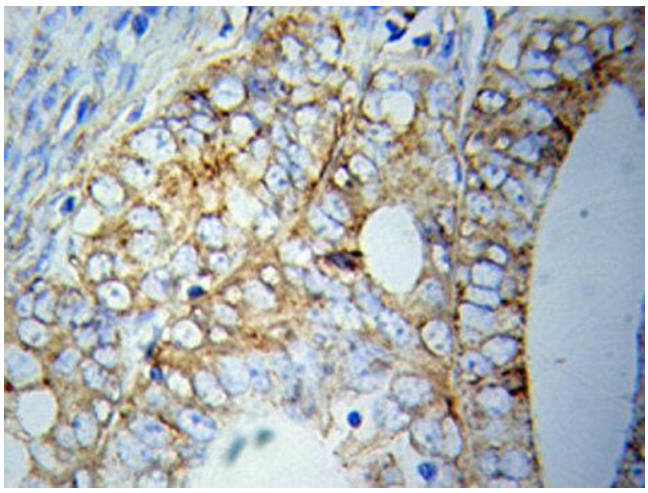
Western Blotting

Image 1. Effects of ALA on cardiac function, inflammation and autophagy in CLP-induced septic rats. (A) ALA elevated LVSP, LVEDP, +dp/dt, -dp/dt, and heart rate in septic rats. (B) ALA inhibited the expression of the pro-inflammatory factors IL-1β, TNF-α, and iNOS, and (C) and increased the expression of the autophagy-associated proteins LC3, Atg5, Atg7, beclin-1, and decreased the expression of p62, as determined by western blot analysis. 3-MA reversed the effects of ALA on cardiac function and these protein expressions. Data are expressed as the mean ± SD, n = 8. **P < 0.01 vs. sham-operated rats, #P < 0.05 vs. CLP-operated rats, ##P < 0.01 vs. CLP-operated rats, P < 0.05 vs. ALA-treated CLP rats, P < 0.01 vs. ALA-treated CLP rats. - figure provided by CiteAb. Source: PMID31333648



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using ATG5 antibody.



Immunohistochemistry

Image 3.

Please check the product details page for more images. Overall 11 images are available for ABIN3020674.