Datasheet for ABIN752413

anti-ATG5 antibody (AA 101-200)

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Overview

Quantity:	100 µL
Target:	ATG5
Binding Specificity:	AA 101-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human APG5L
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	ATG5

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Target Details

Alternative Name:	APG5L (ATG5 Products)
Background:	Synonyms: ASP, APG5, APG5L, hAPG5, APG5-LIKE, Autophagy protein 5, Apoptosis-specific protein, ATG5 Background: Involved in autophagic vesicle formation. Conjugation with ATG12, through a ubiquitin-like conjugating system involving ATG7 as an E1-like activating enzyme and ATG1 as an E2-like conjugating enzyme, is essential for its function. The ATG12-ATG5 conjugate acts as an E3-like enzyme which is required for lipidation of ATG8 family proteins and their association to the vesicle membranes. Involved in mitochondrial quality control after oxidative damage, and in subsequent cellular longevity. The ATG12-ATG5 conjugate also negatively regulates the innate antiviral immune response by blocking the type I IFN production pathway through direct association with RARRES3 and MAVS. Also plays a role in translation or delivery of incoming viral RNA to the translation apparatus. Plays a critical role in multiple aspects of lymphocyte development and is essential for both B and T lymphocyte survival and proliferation. Required for optimal processing and presentation of antigens for MHC II. Involved in the maintenance of axon morphology and membrane structures, as well as in normal adipocyte differentiation. Promotes primary ciliogenesis through removal of OFD1 from centriolar satellites and degradation of IFT2 via the autophagic pathway. May play 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. Plays a crucial role in IFN-gamma-induced autophagic cell death by interacting with FADD.
Gene ID:	9474
UniProt:	Q9H1Y0
Pathways:	Activation of Innate immune Response, Production of Molecular Mediator of Immune Response , Autophagy

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Application Details

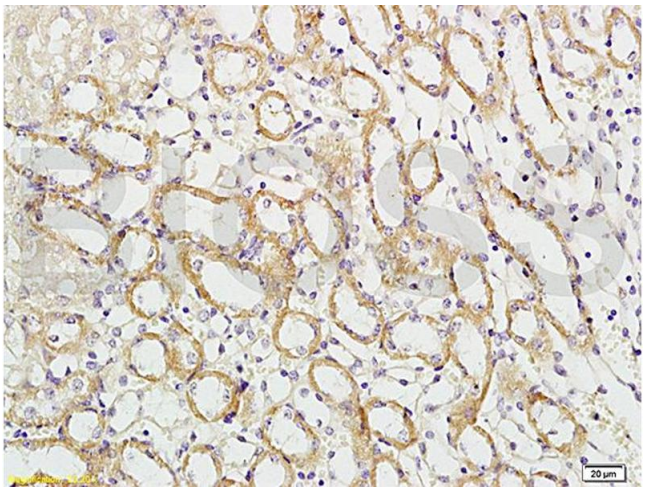
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

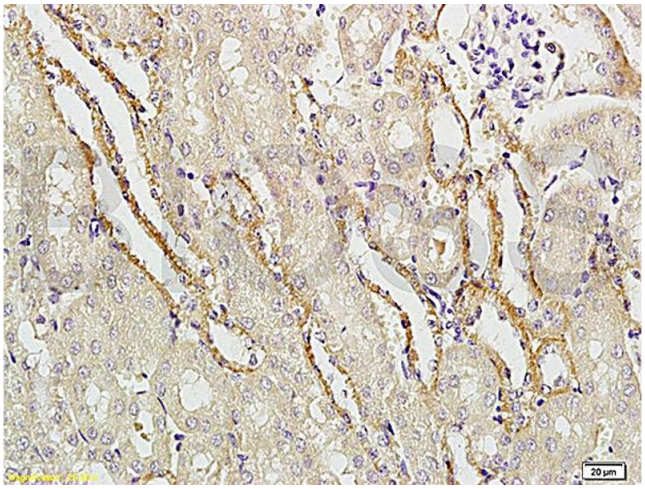
Publications

Product cited in:	Li, Li, Wang, Xie, Zhou, Meng, Ding, Ge, Chen: "Autophagy contributes to 4-Amino-2-Trifluoromethyl-Phenyl Retinate-induced differentiation in human acute promyelocytic leukemia NB4 cells." in: **Toxicology and applied pharmacology**, Vol. 319, pp. 1-11, (2017) (PubMed). Lang, Qin, Li, Zhang, Fang, Hao: "Apoptotic Cell Death Induced by Resveratrol Is Partially Mediated by the Autophagy Pathway in Human Ovarian Cancer Cells." in: **PLoS ONE**, Vol. 10, Issue 6, pp. e0129196, (2015) (PubMed). Zhang, Ma, Qi, Wei, Zhang, Li, Chiu: "P62 regulates resveratrol-mediated Fas/Cav-1 complex formation and transition from autophagy to apoptosis." in: **Oncotarget**, Vol. 6, Issue 2, pp. 789-801, (2015) (PubMed). Tang, Li, Wei, Zhang, Chiu, Hasenmayer, Zhang, Zhang: "Resveratrol-induced apoptosis is enhanced by inhibition of autophagy in esophageal squamous cell carcinoma." in: **Cancer letters**, Vol. 336, Issue 2, pp. 325-37, (2013) (PubMed). There are more publications referencing this product on: Product page



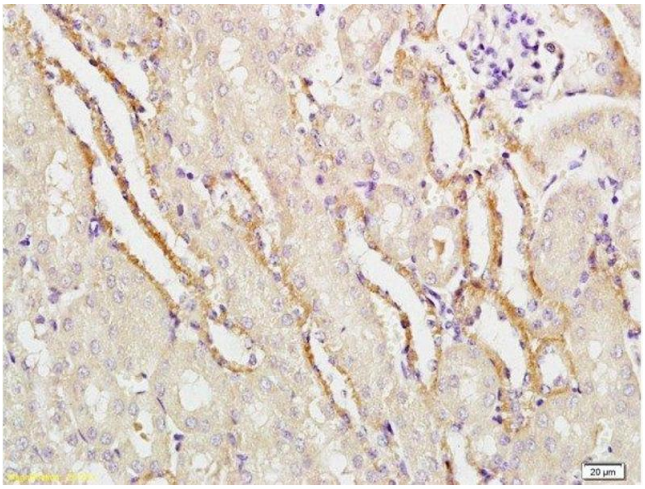
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse kidney labeled with Rabbit Anti-APG5L/ATG5 Polyclonal Antibody (ABIN752413) at 1:100 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat brain tissue labeled with Rabbit Anti-APG5L/ATG5 Polyclonal Antibody (ABIN752413) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded mouse kidney labeled with Rabbit Anti-APG5L/ATG5 Polyclonal Antibody at 1:100 followed by conjugation to the secondary antibody and DAB staining.

Please check the product details page for more images. Overall 6 images are available for ABIN752413.

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