

Datasheet for ABIN388519
anti-ATG5 antibody (C-Term)

5 Images

29 Publications



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Overview

Quantity:	400 µL
Target:	ATG5
Binding Specificity:	AA 209-238, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ATG5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 209-238 amino acids from the C-terminal region of human ATG5.
Clone:	RB7547
Isotype:	IgG
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ATG5
Alternative Name:	ATG5 (ATG5 Products)

Target Details

Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). APG5, required for autophagy, conjugates to ATG12 and associates with an isolation membrane to form a cup-shaped isolation membrane and autophagosome. The conjugate detaches from the membrane immediately before or after autophagosome formation is completed. APG5 may also 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.
Molecular Weight:	32447
Gene ID:	9474
NCBI Accession:	NP_004840
UniProt:	Q9H1Y0
Pathways:	Activation of Innate immune Response , Production of Molecular Mediator of Immune Response , Autophagy

Application Details

Application Notes:	IF: 1:25. WB: 1:1000. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	4 °C,-20 °C

Handling

Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.

Expiry Date: 6 months

Publications

Product cited in: Zhang, Michel, Lenz, Friedel, Köster, dHedouville, Tönges, Urlaub, Bähr, Lingor, Koch: "Calpain-mediated cleavage of collapsin response mediator protein-2 drives acute axonal degeneration." in: **Scientific reports**, Vol. 6, pp. 37050, (2018) ([PubMed](#)).

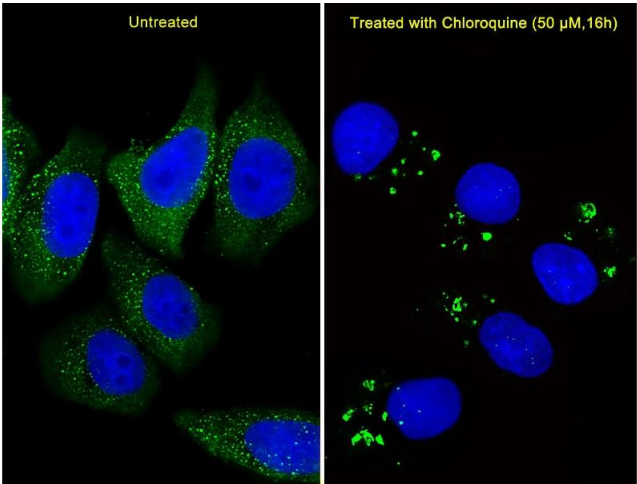
Radogna, Cerella, Gaigneaux, Christov, Dicato, Diederich: "Cell type-dependent ROS and mitophagy response leads to apoptosis or necroptosis in neuroblastoma." in: **Oncogene**, Vol. 35, Issue 29, pp. 3839-53, (2017) ([PubMed](#)).

Kessel, Evans: "Promotion of Proapoptotic Signals by Lysosomal Photodamage: Mechanistic Aspects and Influence of Autophagy." in: **Photochemistry and photobiology**, Vol. 92, Issue 4, pp. 620-3, (2017) ([PubMed](#)).

Zhang, Gao, Zhang, Song, Cheng, Zhou: "The germline-enriched Ppp1r36 promotes autophagy." in: **Scientific reports**, Vol. 6, pp. 24609, (2017) ([PubMed](#)).

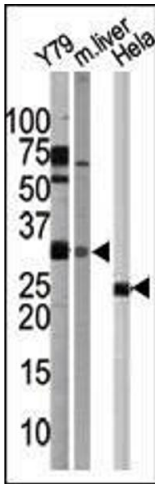
Mathai, Meijer, Simonsen: "Studying Autophagy in Zebrafish." in: **Cells**, Vol. 6, Issue 3, (2017) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



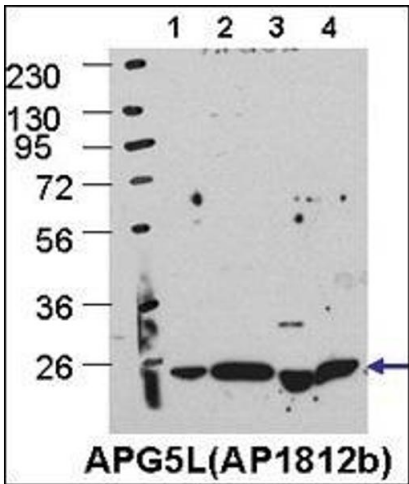
Immunofluorescence

Image 1. Fluorescent image of cells stained with ATG5 Antibody (C-term) (ABIN388519 and ABIN2849632). (ABIN388519 and ABIN2849632) was diluted at 1:25 dilution. cells were treated with Chloroquine (50 μ M, 16h), An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue).



Western Blotting

Image 2. Western blot analysis of G5L Pab in Y79 cell line, mouse liver tissue, and HeLa cell line lysates 1812b.



Western Blotting

Image 3. Cos7, HE, MEF, and HeLa cells left to right, respectively. Data courtesy of Drs. Jiefei Geng and Dan Klionsky, University of Michigan.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN388519.