

Rabbit anti-Human, mouse ATG5 Polyclonal Antibody | anti-ATG5 antibody

ATG5 Antibody (C-term)

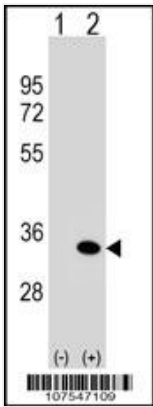
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284812	Rabbit	Human, mouse	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

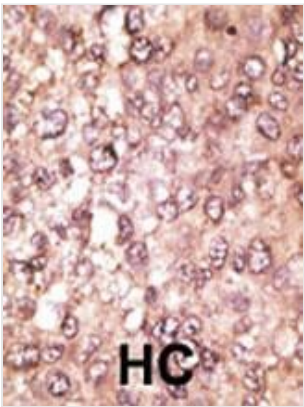
ATG5; Polyclonal Antibody; ATG5 Antibody (C-term); Autophagy protein 5; APG5-like; Apoptosis-specific protein; APG5L; ASP; anti-ATG5 antibody

PRODUCT SPECIFICATIONS

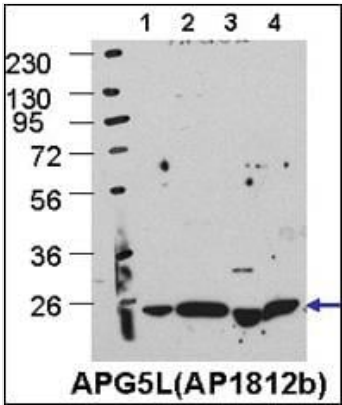
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ATG5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 209-238 amino acids from the C-terminal region of human ATG5.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	209-238
Sequence Length	197
Applicable Applications for anti-ATG5 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



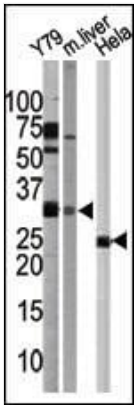
WB (Western Blot)
Western blot analysis of APG5L (arrow) using rabbit polyclonal APG5L Antibody (P224). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the APG5L gene.



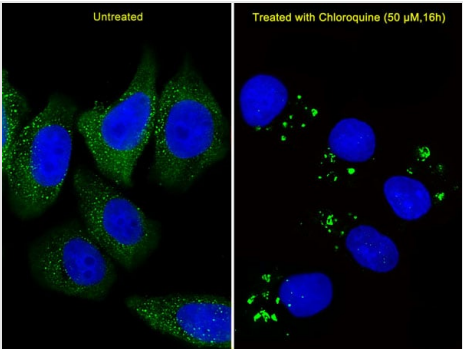
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
Cos7, HEK293, MEF, and Hela cells left to right, respectively. Data courtesy of Drs. Jiefei Geng and Dan Klionsky, University of Michigan.



WB (Western Blot)
Western blot analysis of APG5L Pab in Y79 cell line, mouse liver tissue, and Hela cell line lysates.



IF (Immunofluorescence)
Fluorescent image of U251 cells stained with ATG5 Antibody (C-term). AAA284812 was diluted at 1:25 dilution. U251 cells were treated with Chloroquine (50 uM, 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).

ADDITIONAL INFORMATION

Related Product Information for anti-ATG5 antibody	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.
Product Categories/Family for anti-ATG5 antibody	Crown Antibodies ; Cancer ; Cardiovascular ; Cell Biology ; Metabolism
References	Baehrecke EH. Nat Rev Mol Cell Biol. 6(6):505-10. (2005) Lum JJ, et al. Nat Rev Mol Cell Biol. 6(6):439-48. (2005) Greenberg JT. Dev Cell. 8(6):799-801. (2005) Levine B. Cell. 120(2):159-62. (2005) Shintani T and Klionsky DJ. Science. 306(5698):990-5. (2004) Hammond E.M., et al. FEBS Lett. 425:391-395(1998) Strausberg R.L., et al. PNAS 99:16899-16903(2002) Grand R.J.A., et al. Exp. Cell Res. 218:439-451(1995) Mizushima N., et al. J. Biol. Chem. 273:33889-33892(1998) Mizushima N., et al. J. Cell Biol. 152:657-668(2001)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4757798
NCBI GeneID	9474
NCBI Accession #	NP_004840.1
NCBI GenBank Nucleotide #	NM_004849.3
UniProt Accession #	Q9H1Y0 ; O60875 ; Q5JVR2 ; Q68DI4 ; Q9H2B8 ; Q9HCZ7
Molecular Weight	32447
NCBI Official Full Name	autophagy protein 5 isoform a
NCBI Official Synonym Full Names	autophagy related 5
NCBI Official Symbol	ATG5
NCBI Official Synonym Symbols	ASP; APG5; APG5L; hAPG5; APG5-LIKE
NCBI Protein Information	autophagy protein 5
UniProt Protein Name	Autophagy protein 5
UniProt Gene Name	ATG5
UniProt Synonym Gene Names	APG5L; ASP
UniProt Entry Name	ATG5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atg5-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/284812>