

Rabbit anti-Human ATG9A Polyclonal Antibody | anti-ATG9A antibody

ATG9A Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287183	Rabbit	Human	Immunohistochemistry, Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

ATG9A; Polyclonal Antibody; ATG9A Antibody (C-term); Autophagy-related protein 9A; APG9-like 1; mATG9; APG9L1; anti-ATG9A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ATG9A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 717-746 amino acids from the C-terminal region of human ATG9A.
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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	717-746
Sequence Length	528
Applicable Applications for anti-ATG9A antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
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.

IMAGES



IHC (Immunohistochemisry)

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)

Western blot analysis of anti-Autophagy APG9L1 Antibody (C-term) in A2058 and A375 cell line lysates (35ug/lane). APG9L1(arrow) was detected using the purified Pab.



IF (Immunofluorescence)

Fluorescent image of U251 cells stained with ATG9A (C-term) antibody. U251 cells were treated with Chloroquine (50 uM,16h), then fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA287183 ATG9A (C-term) primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). ATG9A immunoreactivity is localized to autophagic vacuoles in the cytoplasm of U251 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-ATG9A 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). Apg9 plays a direct role in the formation of the cytoplasm to vacuole targeting and autophagic vesicles, possibly serving as a marker for a specialized compartment essential for these vesicle-mediated alternative targeting pathways.
Product Categories/Family for anti-ATG9A antibody	Signal Transduction ; Neuroscience ; Metabolism ; Developmental Biology ; Cell Biology ; Cancer ; Phospho Antibodies
References	References for protein: 1.Baehrecke EH. Nat Rev Mol Cell Biol. 6(6):505-10. (2005) 2.Lum JJ, et al. Nat Rev Mol Cell Biol. 6(6):439-48. (2005) 3.Greenberg JT. Dev Cell. 8(6):799-801. (2005) 4.Levine B. Cell. 120(2):159-62. (2005) 5.Shintani T and Klionsky DJ. Science. 306(5698):990-5. (2004) References for U251 cell line: 1. Westermarck B.; Pontén J.; Hugosson R. (1973). " Determinants for the establishment of permanent tissue culture lines from human gliomas". Acta Pathol Microbiol Scand A. 81:791-805. [PMID: 4359449]. 2. Pontén, J.,Westermarck B. (1978). " Properties of Human Malignant Glioma Cells in Vitro". Medical Biology 56: 184-193.[PMID: 359950]. 3. Geng Y.;Kohli L.; Klocke B.J.; Roth K.A.(2010). "Chloroquine-induced autophagic vacuole accumulation and cell death in glioma cells is p53 independent". Neuro Oncol. 12(5): 473-481.[PMID: 20406898].

NCBI AND UNIPROT INFORMATION

NCBI GI #	116089282
NCBI GeneID	79065
NCBI Accession #	NP_001070666.1 ; NP_076990.4
NCBI GenBank Nucleotide #	NM_001077198.2
UniProt Accession #	Q7Z3C6 ; Q3ZAQ6 ; Q6P0N7 ; Q7Z317 ; Q7Z320 ; Q8NDK6 ; Q8WU65 ; Q9BVL5 ; Q9H6L1 ; Q9HAG7
Molecular Weight	94447
NCBI Official Full Name	autophagy-related protein 9A
NCBI Official Synonym Full Names	autophagy related 9A
NCBI Official Symbol	ATG9A
NCBI Official Synonym Symbols	mATG9; APG9L1; MGD3208

NCBI Protein Information	autophagy-related protein 9A
UniProt Protein Name	Autophagy-related protein 9A
UniProt Gene Name	ATG9A
UniProt Synonym Gene Names	APG9L1
UniProt Entry Name	ATG9A_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/atg9a-antibody-immunohistochemistry-western-blot-immunofluorescence-elisa/287183>