

Datasheet for ABIN388528

anti-ATG9A antibody (C-Term)[Go to Product page](#)**3** Images**2** Publications

Overview

Quantity:	400 µL
Target:	ATG9A
Binding Specificity:	AA 717-746, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG9A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	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.
Clone:	RB7505-RB7506
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ATG9A
Alternative Name:	ATG9A (ATG9A 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). 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.

Molecular Weight: 94447

Gene ID: 79065

NCBI Accession: [NP_001070666](#), [NP_076990](#)

UniProt: [Q7Z3C6](#)

Application Details

Application Notes: IF: 1:100. 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.

Storage: 4 °C, -20 °C

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

Expiry Date: 6 months

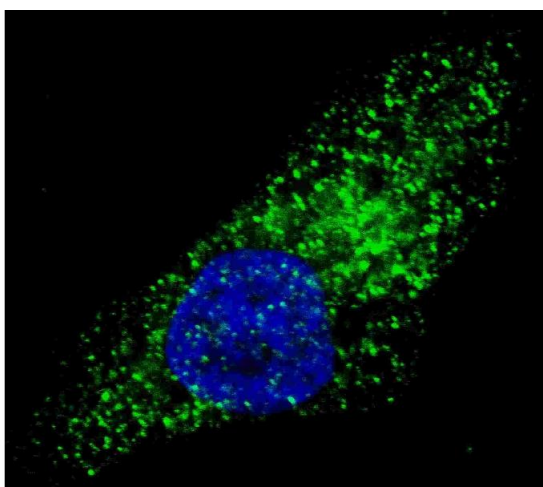
Publications

Product cited in: Yang, Liu, Goga, Kim, Yuneva, Bishop: "Therapeutic potential of a synthetic lethal interaction

between the MYC proto-oncogene and inhibition of aurora-B kinase." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 107, Issue 31, pp. 13836-41, (2010) ([PubMed](#)).

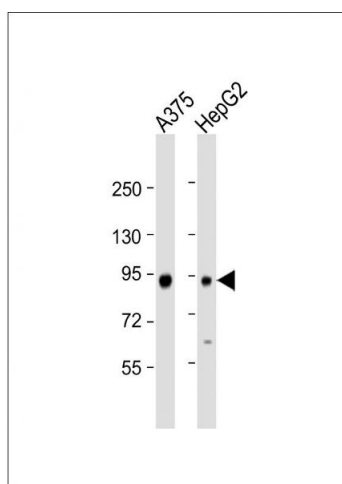
Gao, Kang, Liao, Ding, Gambotto, Watkins, Liu, Stolz, Yin: "Biochemical isolation and characterization of the tubulovesicular LC3-positive autophagosomal compartment." in: **The Journal of biological chemistry**, Vol. 285, Issue 2, pp. 1371-83, (2010) ([PubMed](#)).

Images



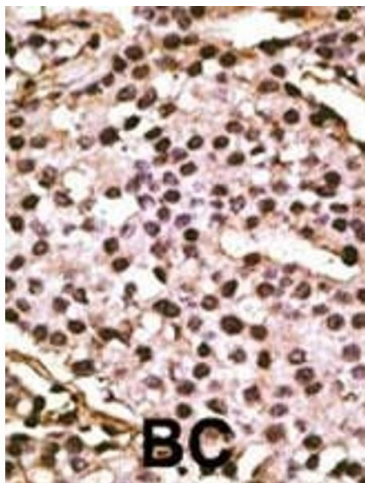
Immunofluorescence

Image 1. Fluorescent image of cells stained with ATG9A (C-term) antibody. cells were treated with Chloroquine (50 μ M, 16h), then fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.2 %, 30 min). Cells were then incubated with (ABIN388528 and ABIN2849652) 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 μ g/mL, 5 min). ATG9A immunoreactivity is localized to autophagic vacuoles in the cytoplasm of cells.



Western Blotting

Image 2. All lanes : Anti-G9L1 Antibody at 1:1000 dilution
Lane 1: whole cell lysate Lane 2: HepG2 whole cell lysate
Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 94 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. 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.