Product datasheet

Anti-ATG9A Antibody

Catalog Number: *A03757-3*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-ATG9A Antibody
Gene Name	ATG9A
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human ATG9A recombinant protein (Position: E22-R169).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	100-110 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Autophagy-related protein 9A is a protein that in humans is encoded by the ATG9A gene. ATG9A is the only transmembrane ATG protein essential for autophagy. It plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS). It has been reported that ATG9A expression is increased in oral squamous cell carcinoma and breast cancers. The inhibition of ATG9A can lead to an inhibition of cancer cell proliferation and invasion.

Selected Validation Data

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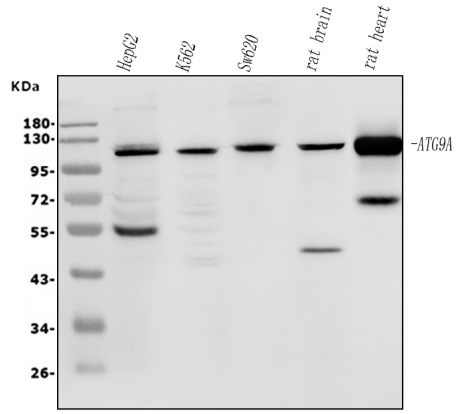
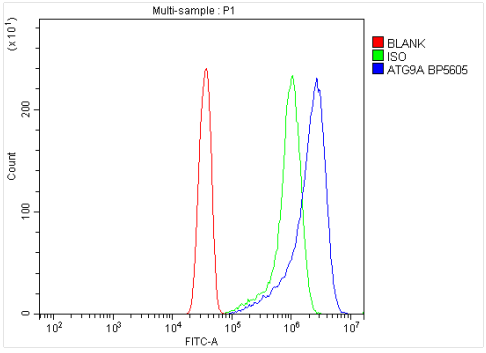


Western blot analysis of ATG9A using anti-ATG9A antibody (A03757-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HEPG2 whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: human SW620 whole cell lysates,
Lane 4: rat brain tissue lysates,
Lane 5: rat heart tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ATG9A antigen affinity purified polyclonal antibody (A03757-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ATG9A at approximately 100-110 kDa. The expected band size for ATG9A is at 94 kDa.

IHC analysis of ATG9A using anti-ATG9A antibody (A03757-3). ATG9A was detected in a paraffin-embedded section of human glioma tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-ATG9A Antibody (A03757-3) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of Hela cells using anti-ATG9A antibody (A03757-3).
Overlay histogram showing Hela cells stained with A03757-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ATG9A Antibody (A03757-3) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit

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IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.