Anti-ATP6V1A Antibody

Catalog Number: *A10401-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-ATP6V1A Antibody
Gene Name	ATP6V1A
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human ATP6V1A recombinant protein (Position: R129-D617).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	70 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 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

V-type proton ATPase catalytic subunit A is an enzyme that in humans is encoded by the ATP6V1A gene. This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The

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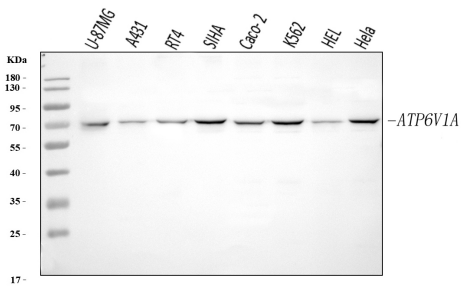
V0 domain consists of five different subunits: a, c, c', c", and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is one of two V1 domain A subunit isoforms and is found in all tissues. Transcript variants derived from alternative polyadenylation exist.

Reference

Anti-ATP6V1A Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of ATP6V1A using anti-ATP6V1A antibody (A10401-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: U-87MG whole cell lysates,
Lane 2: A431 whole cell lysates,
Lane 3: RT4 whole cell lysates,
Lane 4: SIHA whole cell lysates,
Lane 5: Caco-2 whole cell lysates,
Lane 6: K562 whole cell lysates,
Lane 7: HEL whole cell lysates,
Lane 8: Hela whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ATP6V1A antigen affinity purified polyclonal antibody (A10401-2) 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 ATP6V1A at approximately 70 kDa. The expected band size for ATP6V1A is at 68 kDa.

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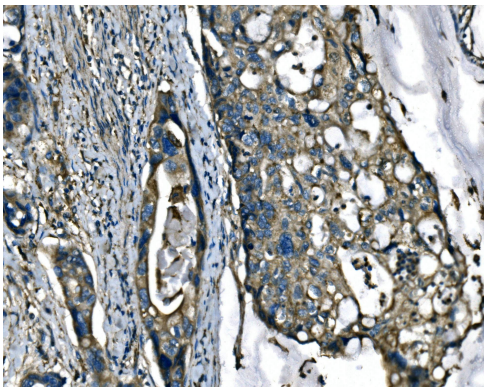
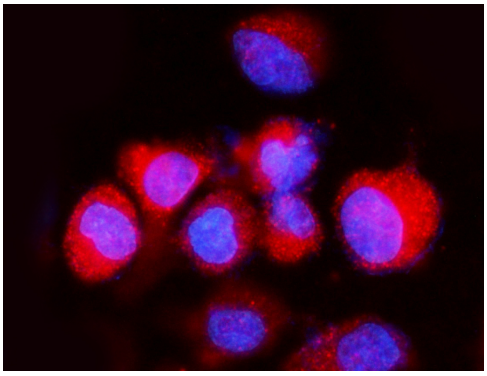
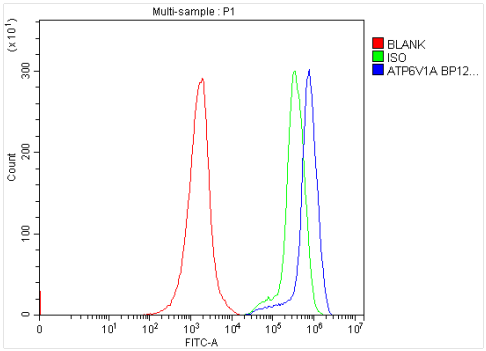


IHC analysis of ATP6V1A using anti-ATP6V1A antibody (A10401-2). ATP6V1A was detected in a paraffin-embedded section of human Adenocarcinoma of the right colon tissue. The tissue section was incubated with rabbit anti-ATP6V1A Antibody (A10401-2) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of ATP6V1A using anti-ATP6V1A antibody (A10401-2). ATP6V1A was detected in an immunocytochemical section of A549 cells. The section was incubated with rabbit anti-ATP6V1A Antibody (A10401-2) at a dilution of 1:100. Fluoro594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of Jurkat cells using anti-ATP6V1A antibody (A10401-2).
Overlay histogram showing Jurkat cells stained with A10401-2 (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-ATP6V1A Antibody (A10401-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit 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.