KD-Validated Anti-ATP6V1A Rabbit Monoclonal Antibody

Catalog #: 63693

Aliases

ATP6V1A; ATPase H+ Transporting V1 Subunit A; V-ATPase Subunit A; ATP6V1A1; ATP6A1; Vma1; VA68; VPP2; ATPase, H+ Transporting, Lysosomal 70kDa, V1 Subunit A; V-Type Proton ATPase (V-ATPase) Catalytic Subunit A; V-Type Proton ATPase Catalytic Subunit A; Vacuolar Proton Pump Subunit Alpha; ATPase, H+ Transporting, Lysosomal (Vacuolar Proton Pump), Alpha Polypeptide, 70kD, Isoform 1; H+-Transporting ATPase Chain A, Vacuolar (VA68 Type); ATPase, H+ Transporting, Lysosomal, Subunit A1; H(+)-Transporting Two-Sector ATPase, Subunit A; Vacuolar Proton Pump Alpha Subunit 1; Vacuolar ATPase Isoform VA68; V-ATPase 69 KDa Subunit 1; Vacuolar-Type H(+)-ATPase; V-ATPase 69 KDa Subunit; V-ATPase A Subunit 1; EC 3.6.3.14; EC 7.1.2.2; EC 3.6.3; ARCL2D; IECEE3; DEE93; HO68

Background

Gene Name: ATP6V1A
NCBI Gene Entry: 523
UniProt Entry: P38606

Application Information

Molecular Weight: Predicted, 68 kDa; observed, 68 kDa
Clonality: Rabbit monoclonal antibody
Clone ID: 24GB6940
Species Reactivity: Human, mouse, rat
Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC), Immunohistochemistry (IHC)

Immunogen

Recombinant protein of human ATP6V1A

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

Storage

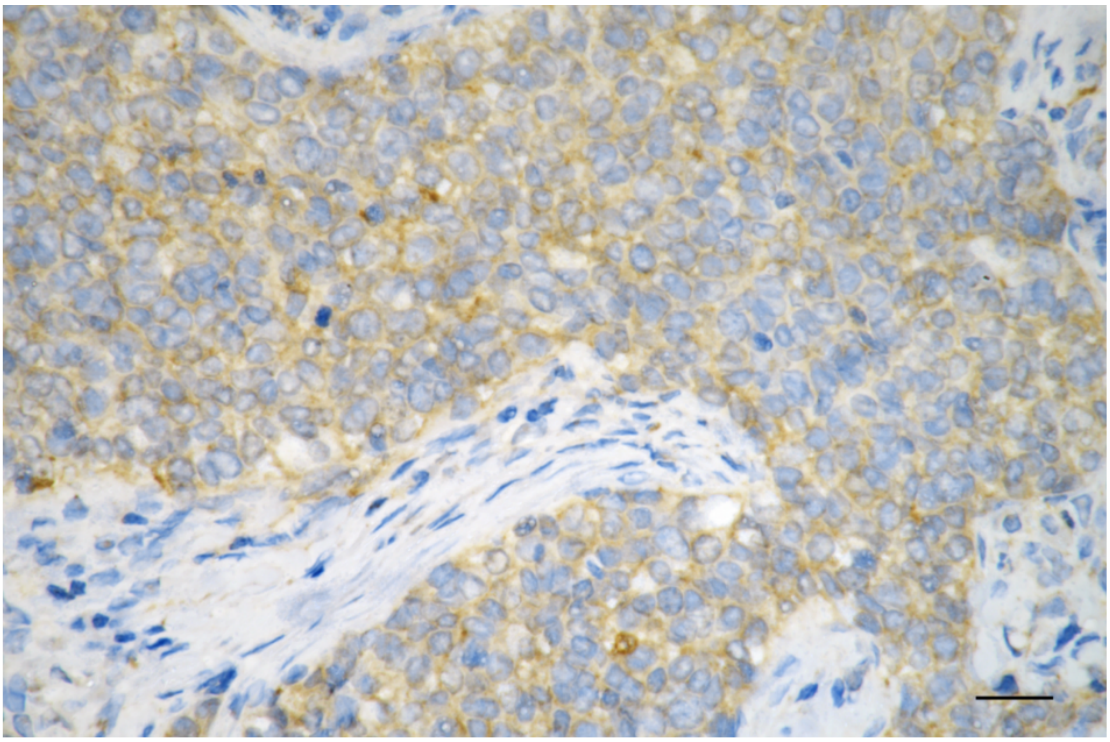
Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:1,000-1:5,000
Flow Cytometry (FCM): 1:2,000
Immunocytochemistry (IC): 1:100-1:1,000
Immunohistochemistry (IHC): 1:100-1:200

Note: This product is for research use only.

Validation Data



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Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using anti-ATP6V1A antibody (Cat#63693, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.

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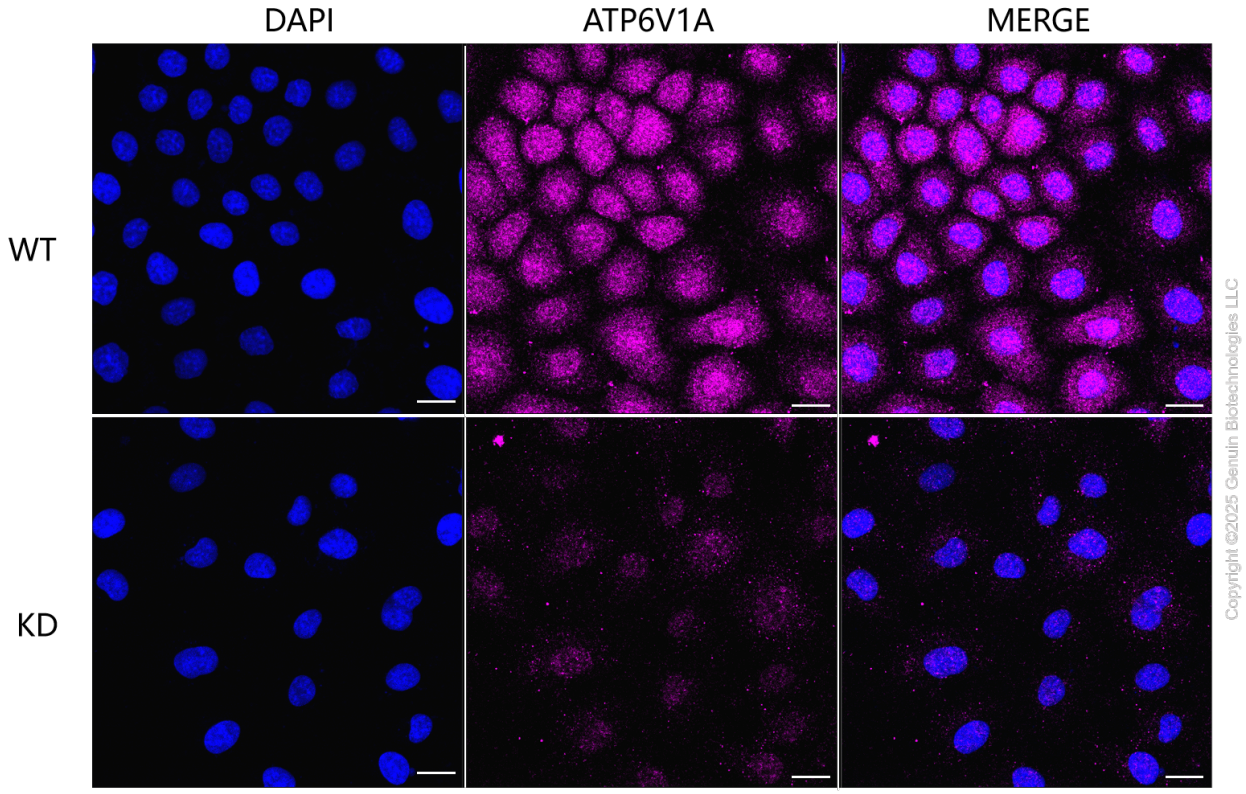

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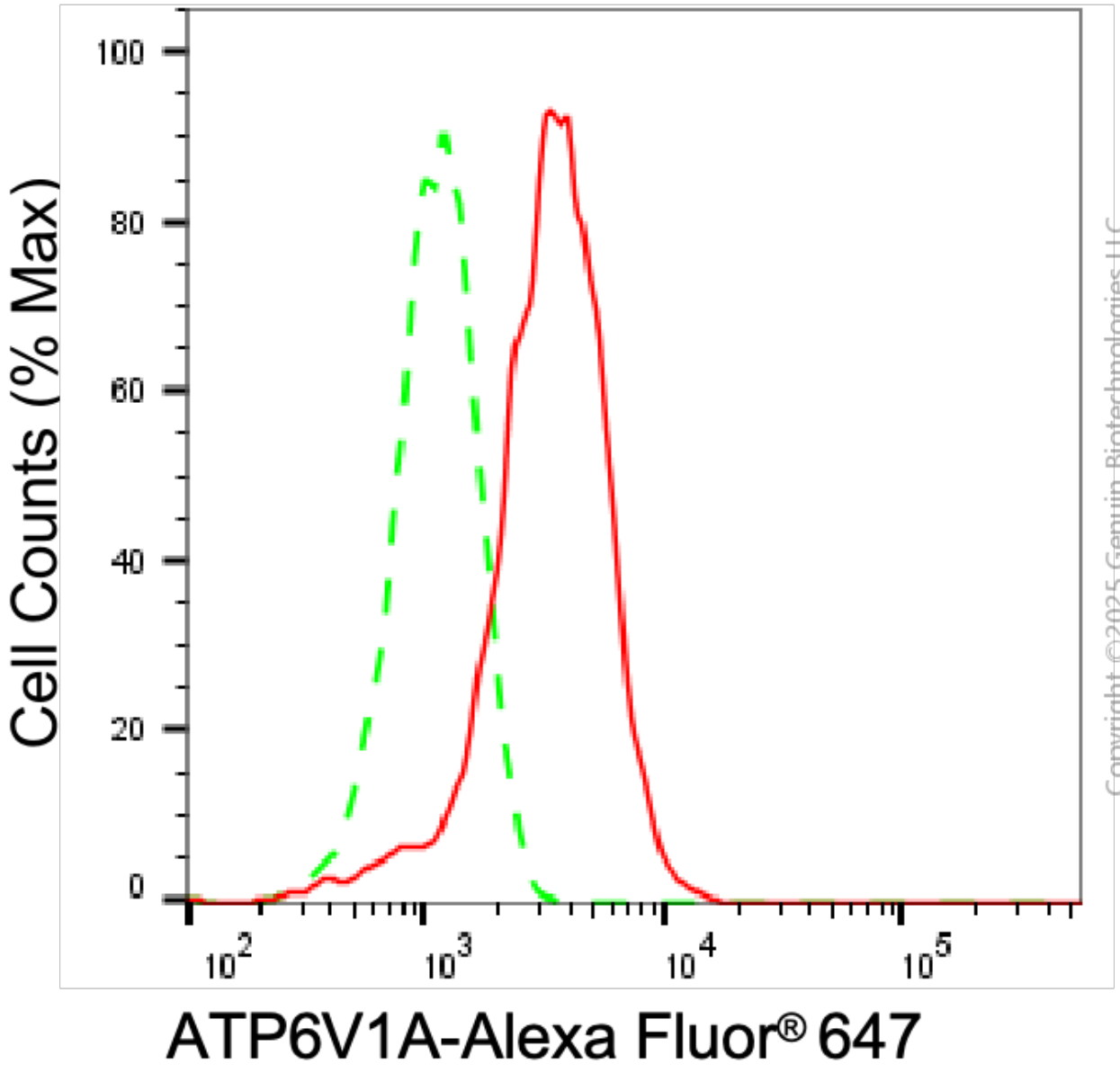
Immunocytochemical staining of HT-1080 cells using anti-ATP6V1A antibody (Cat#63693, 1:1,000), Top panel: wild-type (WT); Bottom panal: ATP6V1A shRNA knockdown (KD). Nuclei were stained blue with DAPI; ATP6V1A was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm. Permeabilization: Triton.



Flow cytometric analysis of ATP6V1A expression in HepG2 cells using anti-ATP6V1A antibody (Cat#63693, 1:2,000). Green, isotype control; red, ATP6V1A.

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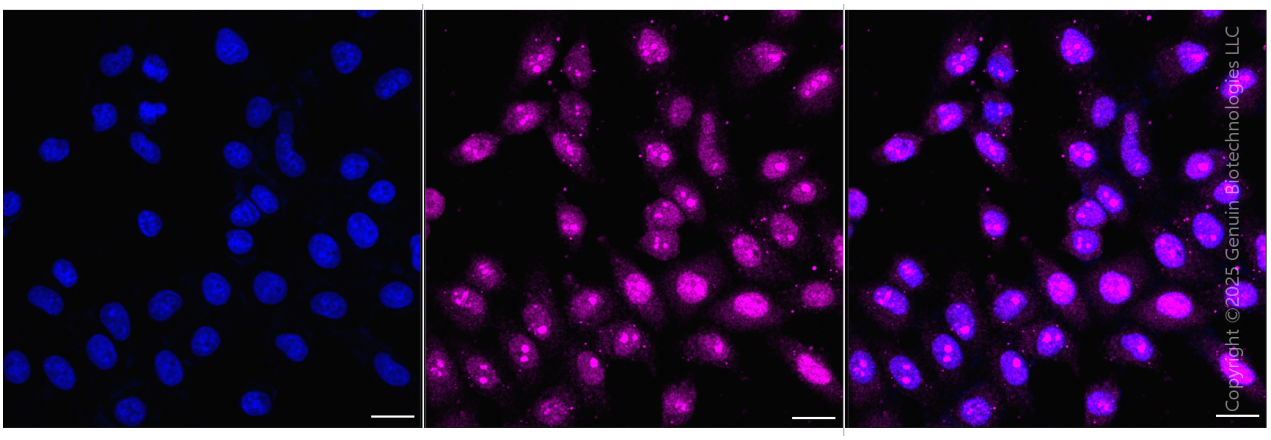
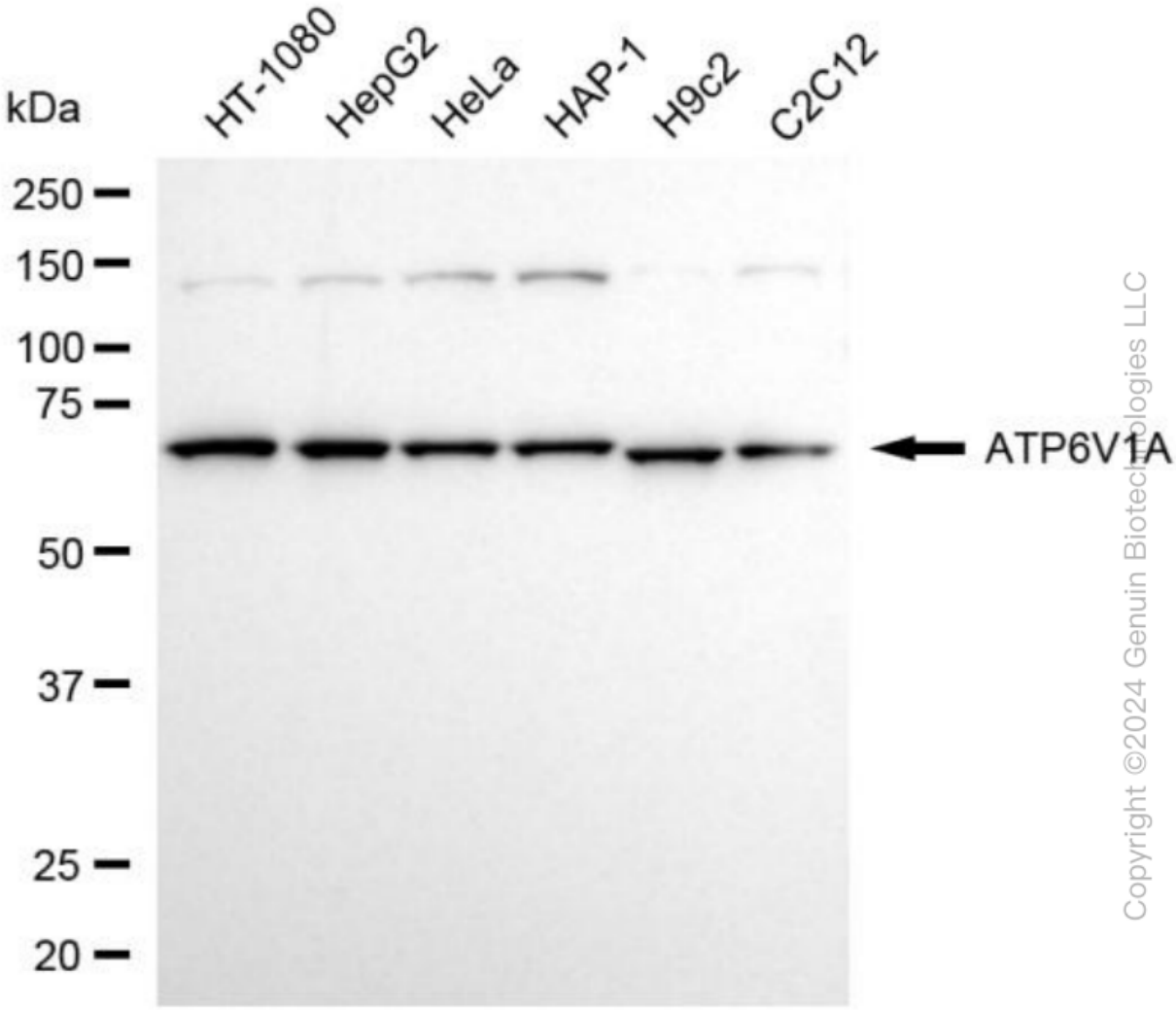


Immunocytochemical staining of HepG2 cells with anti-ATP6V1A antibody (Cat#63693, 1:1,000) . Nuclei were stained blue with DAPI; ATP6V1A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



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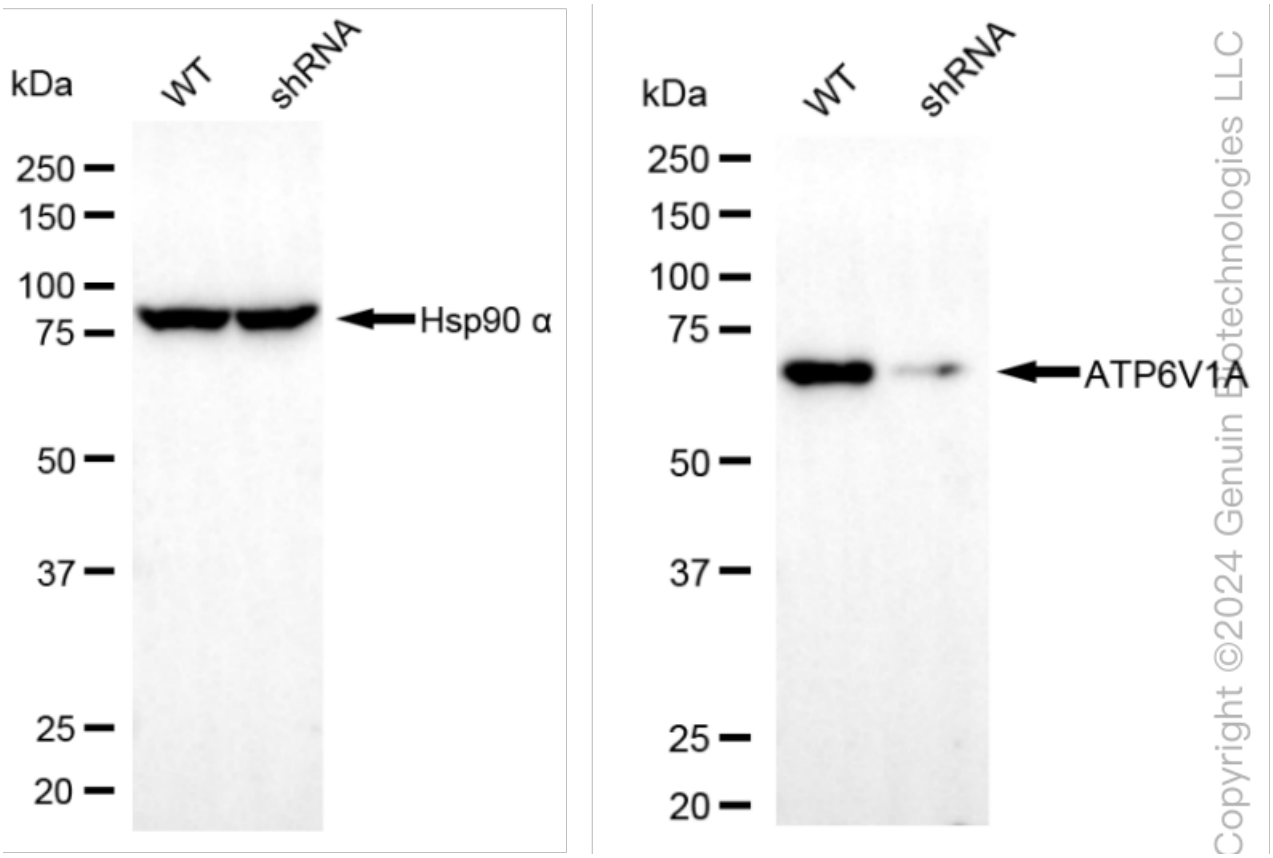
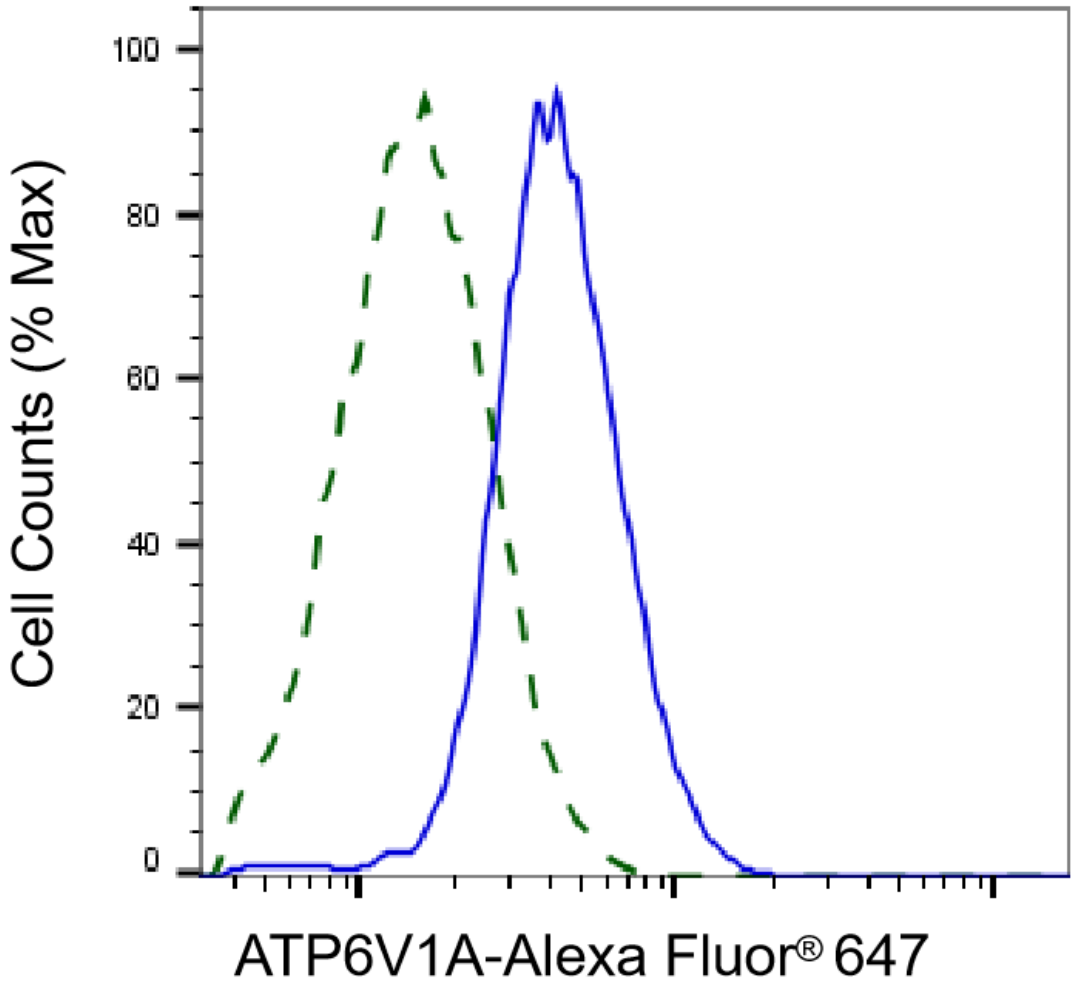
Western blotting analysis using anti-ATP6V1A antibody (Cat#63693). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ATP6V1A antibody (Cat#63693, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



Western blotting analysis using anti-ATP6V1A antibody (Cat#63693). ATP6V1A expression in wild-type (WT) and ATP6V1A shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-ATP6V1A antibody (Cat#63693, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



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Validation of ATP6V1A knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with anti-ATP6V1A antibody (Cat#63693, 1:2,000) and analyzed using BD flow cytometer.