Anti-ATP1A1 Recombinant Rabbit Monoclonal Antibody

Catalog #: 3340

Aliases

ATP1A1; ATPase Na+/K+ Transporting Subunit Alpha 1; Sodium/Potassium-Transporting ATPase Subunit Alpha-1; Sodium Pump Subunit Alpha-1; Sodium-Potassium ATPase Catalytic Subunit Alpha-1; ATPase, Na+/K+ Transporting, Alpha 1 Polypeptide; Na(+)/K(+) ATPase Alpha-1 Subunit; Na,K-ATPase Catalytic Subunit Alpha-A Protein; Sodium-Potassium-ATPase, Alpha 1 Polypeptide; Na, K-ATPase, Alpha-A Catalytic Polypeptide; Na,K-ATPase Alpha-1 Subunit; Na+/K+ ATPase 1; EC 7.2.2.13; EC 3.6.3.9; HOMGSMR2; EC 3.6.3; CMT2DD

Background

Gene Name: ATP1A1
NCBI Gene Entry: 476
UniProt Entry: P05023

Application Information

Molecular Weight: Predicted, 113 kDa; observed, 85 kDa
Clonality: Rabbit monoclonal antibody
Clone ID: 24GB5195
Species Reactivity: Human, mouse, rat
Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC), immunofluorescence-Tissue (IF-Tissue)

Immunogen

A synthesized peptide derived from human Sodium Potassium ATPase

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): 1:2,000-1:10,000
Flow Cytometry (FCM): 1:2,000

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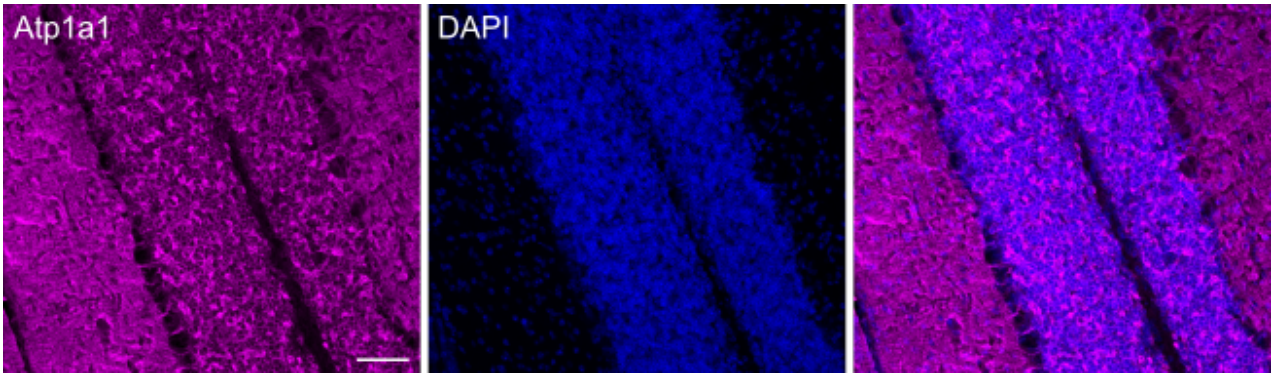
Immunocytochemistry (IC): 1:100-1:1,000
Immunofluorescence-Tissue (IF-Tissue) :1:200-1:400

Note: This product is for research use only.

Validation Data



Immunofluorescence image of 4% PFA fixed, frozen, OCT-embedded adult mouse cerebellum tissue using anti-Atp1a1 antibody (Cat#3340) at dilution 1:400. Atp1a1 (in magenta) was detected using 568 Goat anti-Rabbit IgG H-L, Highly-Cross-Adsorbed Secondary Antibody at dilution 1:400, and nuclei (blue) was detected using DAPI.Scalebar = 50 μm.
Image courtesy of Monica D Sietam from Miguel Holmgren lab, the National Institute of Neurological Disorders and Stroke (NINDS), the National Institutes of Health (NIH). As a work of the U.S. Government, the image itself is not subject to copyright protection in the US. Image provided for educational purposes and does not represent an endorsement by NINDS, NIH, or the U.S. Government of any products or services for any purposes offered by the company.

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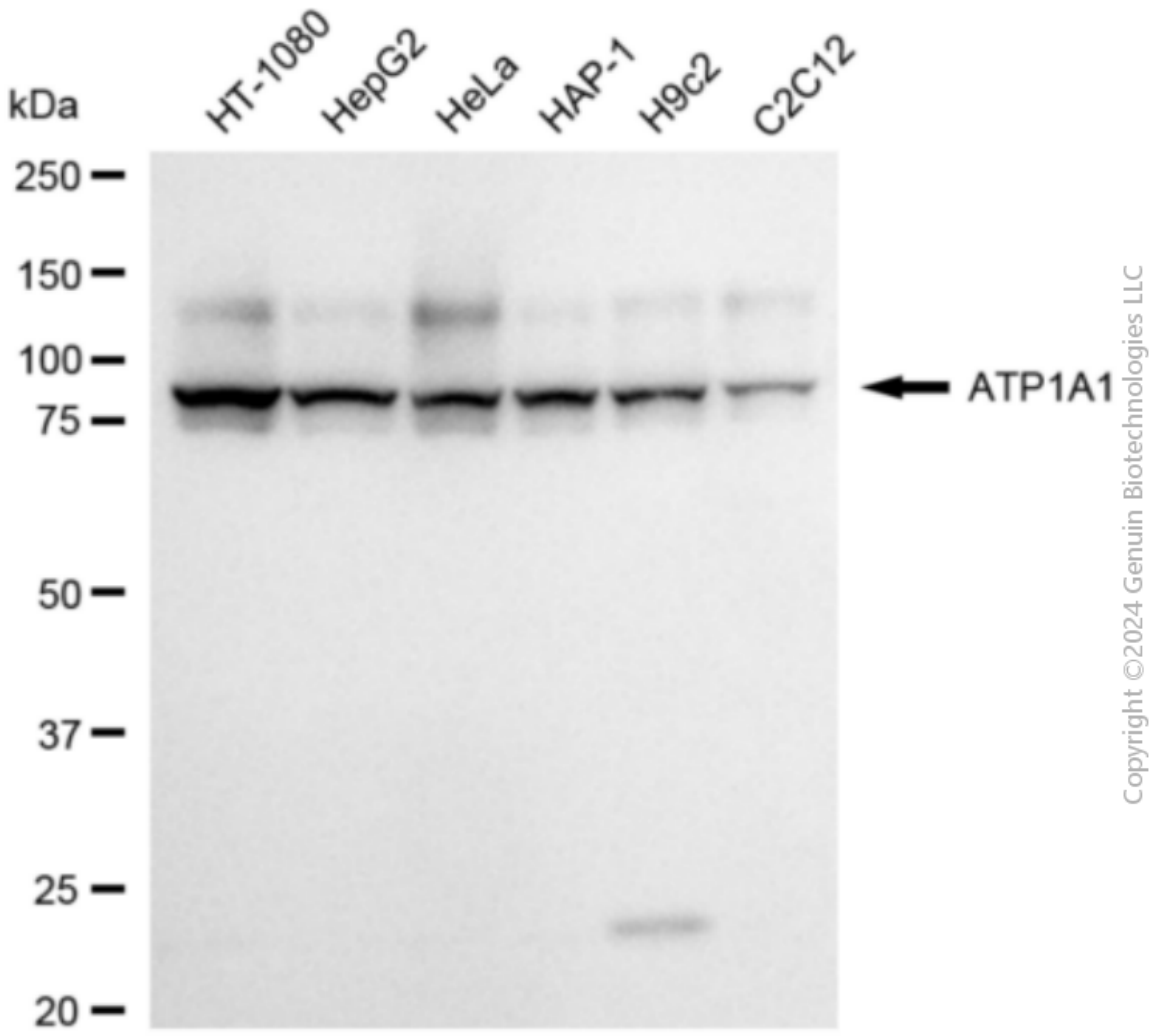

Western blotting analysis using anti-ATP1A1 antibody (Cat#3340). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ATP1A1 antibody (Cat#3340, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).

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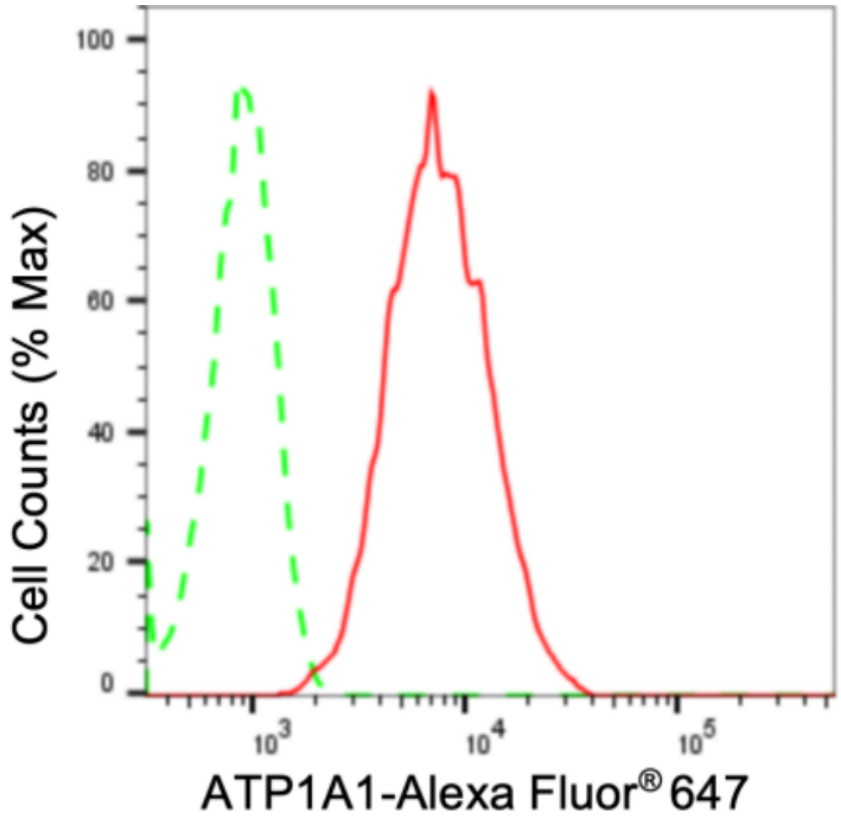
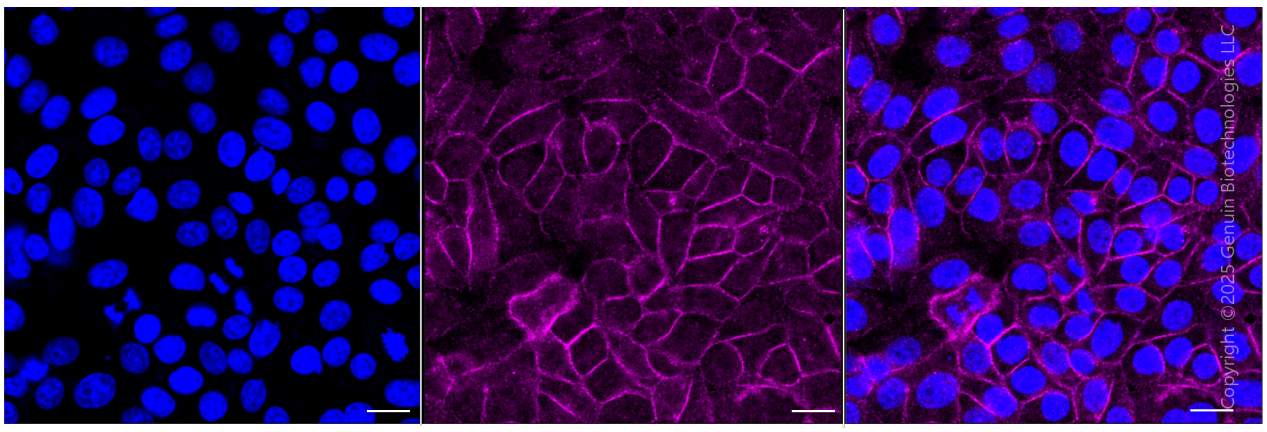


Flow cytometric analysis of ATP1A1 expression in HepG2 cells using anti-ATP1A1 antibody (Cat#3340, 1:2,000). Green, isotype control; red, ATP1A1.



Immunocytochemical staining of HepG2 cells with anti-ATP1A1 antibody (Cat#3340, 1:1,000). Nuclei were stained blue with DAPI; ATP1A1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Meduim. Scale bar: 20 µm.