Anti-ATP1A1 Rabbit Polyclonal Antibody

Catalog #: 51340

Aliases

Sodium/potassium-transporting ATPase subunit alpha-1; Na(+)/K(+) ATPase alpha-1 subunit; Sodium pump subunit alpha-1

Background

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

Application Information

Molecular Weight: Predicted, 112 kDa; observed, 100 kDa
Clonality: Rabbit polyclonal antibody
Species Reactivity: Human, mouse, rat, bovine, dog, pig, rabbit, sheep
Applications Tested: Western blotting (WB), immunohistochemistry (IHC), immunocytochemistry (IC)

Immunogen

A synthesized peptide derived from human ATP1A1

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.3) containing 30% glycerol, and 0.01% sodium azide.

Storage

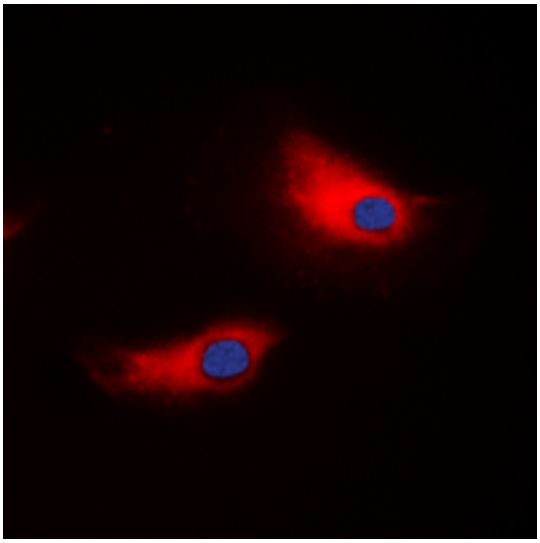
Store at -20 °C for one year.

Recommended Dilutions

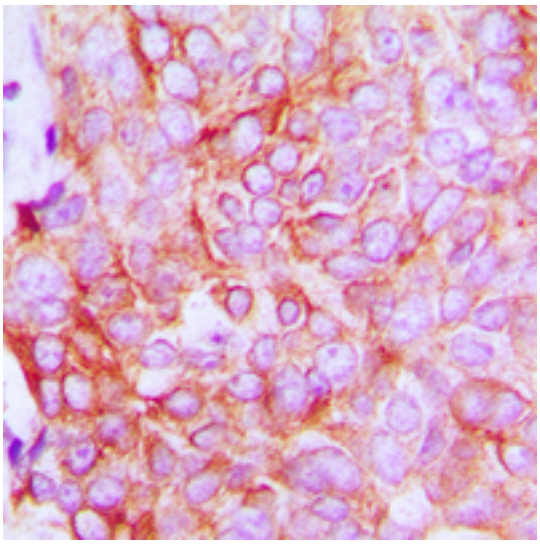
Western Blotting (WB): 1:500-1:1,000
Immunohistochemistry (IHC): 1:100-1:200
Immunocytochemistry (IC): 1:100-1:500

Note: This product is for research use only.

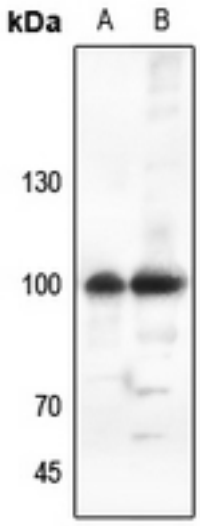
Validation Data



Immunocytochemical analysis of ATP1A1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Immunohistochemical analysis of ATP1A1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Western blotting analysis of ATP1A1 expression in mouse kidney (A), mouse muscle (B) whole cell lysates.