

Basic Information

Product Name	Anti-ATP1A1 Antibody (Clone#AID-1)								
Gene Name	ATP1A1								
Source	Rabbit								
Clonality	Monoclonal								
Isotype	IgG								
Species Reactivity	human, mouse, rat								
Tested Application	WB, IHC, ICC/IF, FCM								
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.								
Immunogen	A synthesized peptide derived from human Sodium Potassium ATPase								
Purification	Affinity-chromatography								
Observed MW	100 kDa								
Dilution Ratios	<table> <tr> <td>Western blot (WB):</td> <td>1:1000-5000</td> </tr> <tr> <td>Immunohistochemistry (IHC):</td> <td>1:50-200</td> </tr> <tr> <td>Immunocytochemistry/Immunofluorescence (ICC/IF):</td> <td>1:50-200</td> </tr> <tr> <td>Flow Cytometry (FCM):</td> <td>1:20</td> </tr> </table>	Western blot (WB):	1:1000-5000	Immunohistochemistry (IHC):	1:50-200	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200	Flow Cytometry (FCM):	1:20
Western blot (WB):	1:1000-5000								
Immunohistochemistry (IHC):	1:50-200								
Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200								
Flow Cytometry (FCM):	1:20								

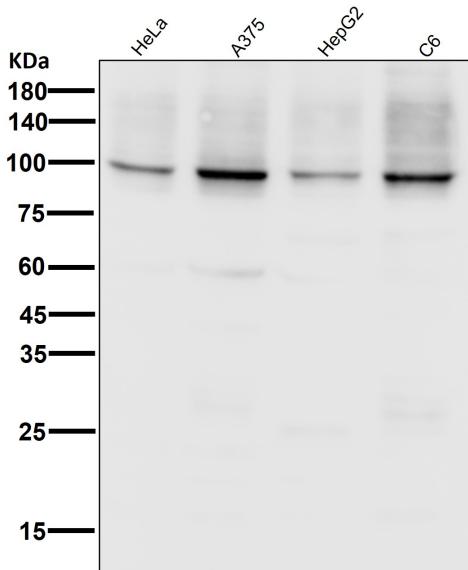
Storage

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

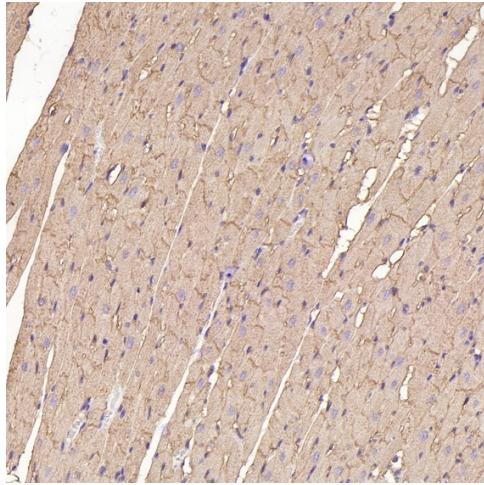
Background Information

The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes an alpha 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene.

Selected Validation Data



All lanes use the Antibody for 1 hour at room temperature.



Immunofluorescent analysis using the Antibody.

