

## Na<sup>+</sup>/K<sup>+</sup>-ATPase alpha1 Polyclonal Antibody

catalog number: E-AB-70349

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

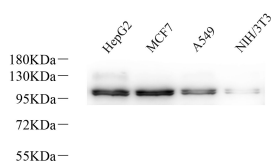
<b>Reactivity</b>	Human;Mouse;Rat
<b>Immunogen</b>	KLH conjugated Synthetic peptide corresponding to human ATP1A1
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Conjugation</b>	Unconjugated
<b>Buffer</b>	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 1% protein protectant and 50% glycerol.

### Applications

### Recommended Dilution

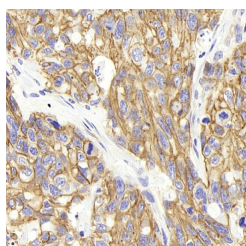
<b>WB</b>	1:500-1:2000
<b>IHC</b>	1:300-1:800

### Data

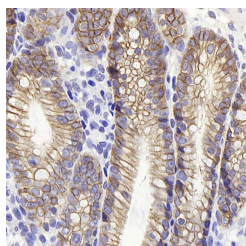


Western Blot analysis of various samples using Na<sup>+</sup>/K<sup>+</sup>-ATPase alpha1 Polyclonal Antibody at dilution of 1:800.

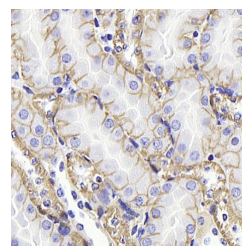
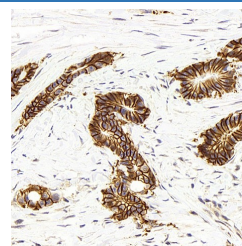
**Observed-MV:100 kDa**  
**Calculated-MV:113 kDa**



Immunohistochemistry analysis of paraffin-embedded human lymphoma using Na<sup>+</sup>/K<sup>+</sup>-ATPase alpha1 Polyclonal Antibody at dilution of 1:300.



Immunohistochemistry analysis of paraffin-embedded human colon using Na<sup>+</sup>/K<sup>+</sup>-ATPase alpha1 Polyclonal Antibody at dilution of 1:300.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using Na<sup>+</sup>/K<sup>+</sup>-ATPase alpha1 Polyclonal Antibody at dilution of 1:300.

### For Research Use Only

Immunohistochemistry analysis of paraffin-embedded Rat colon using Na<sup>+</sup>/K<sup>+</sup>-ATPase alpha1 Polyclonal Antibody at dilution of 1:300.

## Preparation & Storage

**Storage**

Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

**Shipping**

The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

## Background

The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na<sup>+</sup>/K<sup>+</sup>-ATPases. Na<sup>+</sup>/K<sup>+</sup>-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<sup>+</sup>/K<sup>+</sup>-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.