

**Product Name: Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 (Phospho-Tyr260)  
Rabbit Polyclonal Antibody  
Catalog #: APRab05813**



## Summary

<b>Production Name</b>	Na <sup>+</sup> /K <sup>+</sup> -ATPase $\alpha$ 1 (Phospho-Tyr260) Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phospho Antibody
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	ATP1A1
<b>Alternative Names</b>	Sodium/potassium-transporting ATPase subunit alpha-1 (Na <sup>+</sup> )/K <sup>+</sup> ATPase alpha-1 subunit) (EC 3.6.3.9) (Sodium pump subunit alpha-1)
<b>Gene ID</b>	476.0
<b>SwissProt ID</b>	P05023.Synthesized phospho derived from human Na <sup>+</sup> /K <sup>+</sup> -ATPase $\alpha$ 1 (Phospho-Tyr260) Polyclonal

## Application

<b>Dilution Ratio</b>	WB 1:500-2000
<b>Molecular Weight</b>	115kD

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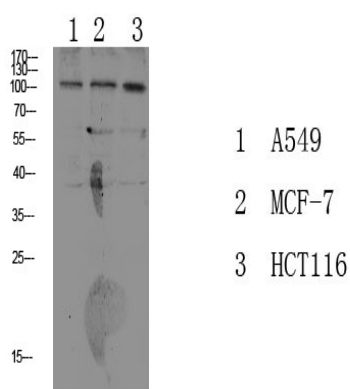
## Background

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. [provided by RefSeq, May 2009],catalytic activity:ATP + H(2)O + Na(+)(In) + K(+)(Out) = ADP + phosphate + Na(+)(Out) + K(+)(In),,function:This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients.,PTM:Phosphorylation on Tyr-10 modulates pumping activity.,similarity:Belongs to the cation transport ATPase (P-type) family.,similarity:Belongs to the cation transport ATPase (P-type) family. Type IIC subfamily.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Composed of three subunits: alpha (catalytic), beta and gamma. Binds the HLA class II histocompatibility antigen, DR1.,

## Research Area

Cardiac muscle contraction;Aldosterone-regulated sodium reabsorption;

## Image Data



Western blot analysis of various lysate, antibody was diluted at 1000. Secondary antibody was diluted at 1:20000

## Note

For research use only.