

Product Name: Sodium Potassium ATPase alpha-1 (Phospho-Tyr260) Rabbit Polyclonal

Antibody

Catalog #: APRab06083

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

ApplicationWB,IHC,ELISAReactivityHuman,Rat,MouseConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

Clonality Polyclonal
Form Liquid
Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000

Molecular Weight 115kDa

Antigen Information

Gene Name ATP1A1

Sodium/potassium-transporting ATPase subunit alpha-1 (Na(+)/K(+) ATPase alpha-1 **Alternative Names**

subunit) (EC 3.6.3.9) (Sodium pump subunit alpha-1)

 Gene ID
 476.0

 SwissProt ID
 P05023

Immunogen Synthetic peptide from human protein at AA range: 230-290

Background

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

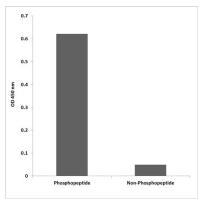


The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na+/K+ -ATPases. Na+/K+ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These 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. [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.,

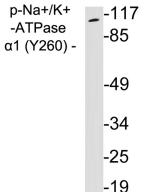
Research Area

Cardiac muscle contraction; Aldosterone-regulated sodium reabsorption;

Image Data



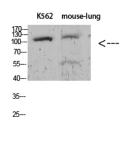
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using Na+/K+-ATPase $\alpha 1$ (Phospho-Tyr260) Antibody



Western blot analysis of lysates from 293 cells treated with PMA, using phospho-Na+/K+-ATPase $\alpha 1$ (Phospho-Tyr260) antibody.

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