

产品名称: Na⁺/K⁺-ATPase α 1 Rabbit Polyclonal Antibody
产品货号: AP Rab14378



产品概述 (Summary)

产品名称 (Production Name)	Na ⁺ /K ⁺ -ATPase α 1 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ATP1A1
别名 (Alternative Names)	ATP1A1; Sodium/potassium-transporting ATPase subunit alpha-1; Na(+)/K(+) ATPase alpha-1 subunit; Sodium pump subunit alpha-1
基因 ID (Gene ID)	476.0
蛋白 ID (SwissProt ID)	P05023.The antiserum was produced against synthesized peptide derived from human ATPase. AA range:5-54

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	112kDa

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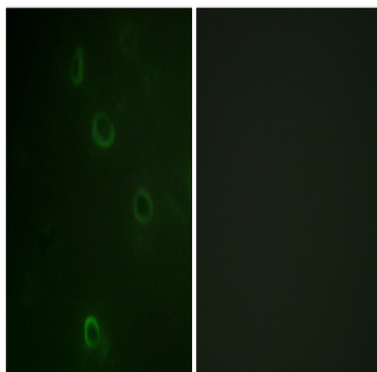
研究背景 (Background)

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 + H₂O + 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.,

研究领域 (Research Area)

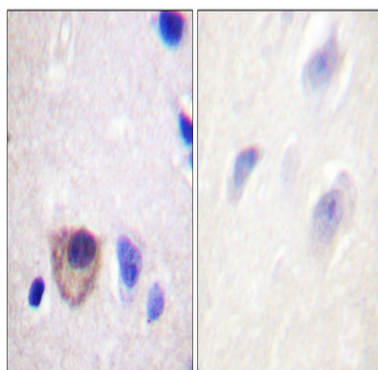
Cardiac muscle contraction; Aldosterone-regulated sodium reabsorption;

图片 (Image Data)

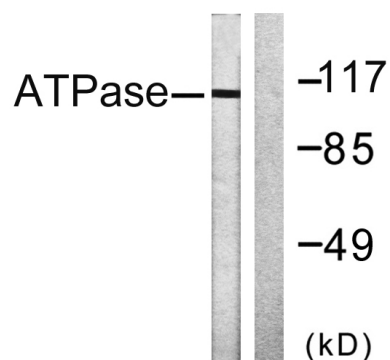


Immunofluorescence analysis of COS7 cells, using ATPase Antibody. The picture on the right is blocked with the synthesized peptide.

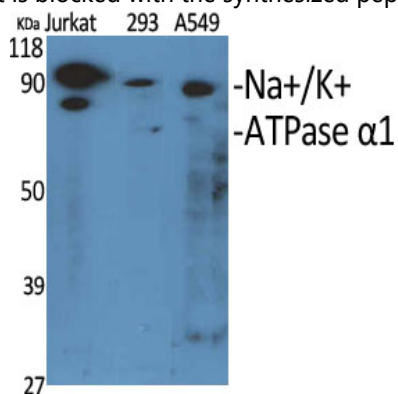
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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ATPase Antibody. The picture on the right is blocked with the synthesized peptide.

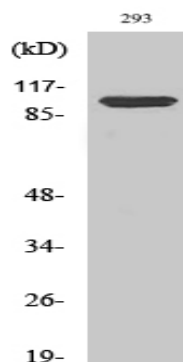


Western blot analysis of lysates from 293 cells, treated with PMA 125ng/ml 30', using ATPase Antibody. The lane on the right is blocked with the synthesized peptide.

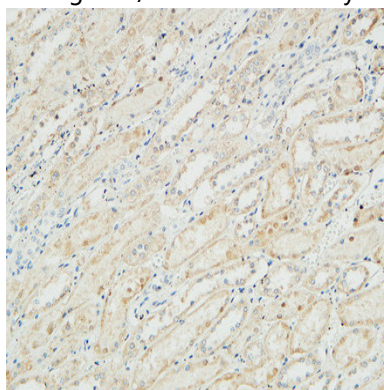


Western Blot analysis of various cells using Na⁺/K⁺-ATPase α1 Polyclonal Antibody diluted at 1: 1000

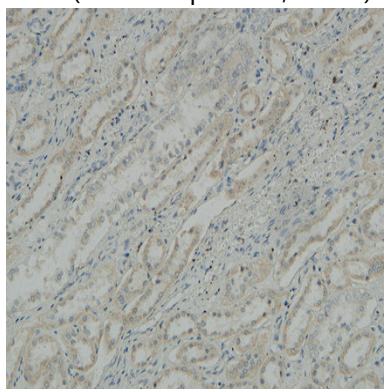
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Western Blot analysis of 293 cells using Na⁺/K⁺-ATPase α1 Polyclonal Antibody diluted at 1: 1000

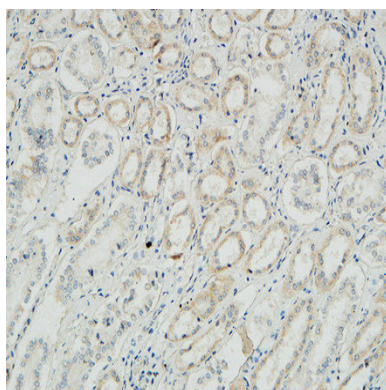


Immunohistochemical analysis of paraffin-embedded Human kidney. 1, Antibody was diluted at 1:100 (4°, overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min) .



Immunohistochemical analysis of paraffin-embedded Human kidney. 1, Antibody was diluted at 1:100 (4°, overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min) .

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注意事项 (Note)

For research use only .