ELK Biotechnology

Na+/K+-ATPase α1 (phospho Ser23) rabbit pAb

Cat No.:ES4388

For research use only

Overview

Product Name	Na+/K+-ATPase α1 (phospho Ser23) rabbit pAb
Host species	Rabbit
Applications	WB;IF;ELISA
Species Cross-Reactivity	Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. IF: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from rat ATP1 alpha1/Na+K+ ATPase1 around the phosphorylation site of Ser23. AA range:15-64
Specificity	Phospho-Na+/K+-ATPase α1 (S23) Polyclonal Antibody detects endogenous levels of Na+/K+-ATPase α1 protein only when phosphorylated at S23.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Sodium/potassium-transporting ATPase subunit alpha-1
Gene Name	ATP1A1
Cellular localization	
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	113kD
Human Gene ID	
Human Swiss-Prot Number	
Alternative Names	ATP1A1; Sodium/potassium-transporting ATPase subunit alpha-1; Na(+)/K(+) ATPase alpha-1 subunit; Sodium pump subunit alpha-1

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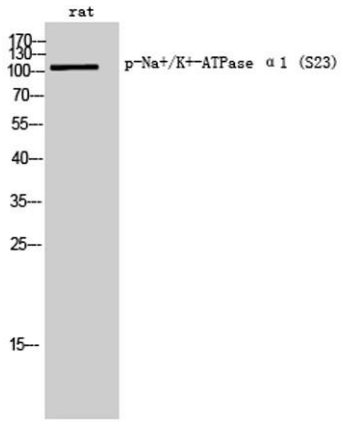
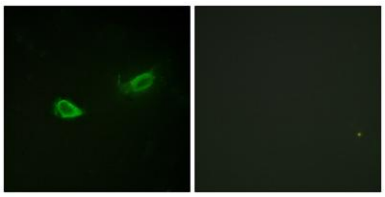
Background

The ATPase Na+/K+ transporting subunit alpha 1 encoded by ATP1A1 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.



Western Blot analysis of rat cells using Phospho-Na+/K+-ATPase α1 (S23) Polyclonal Antibody



Immunofluorescence analysis of NIH/3T3 cells, using ATP1 alpha1/Na+K+ ATPase1 (Phospho-Ser23) Antibody. The picture on the right is blocked with the phospho peptide.

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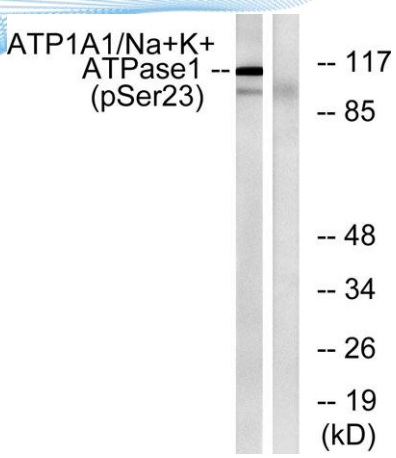

Western blot analysis of lysates from rat brain, using ATP1 alpha1/Na+K+ ATPase1 (Phospho-Ser23) Antibody. The lane on the right is blocked with the phospho peptide.

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