

Na⁺/K⁺-ATPase alpha 1(Phospho Ser23) Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP01188
Host	Rabbit
Isotype	IgG
Size	100ul, 50ul, 20ul
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
Mol wt	113054
Species reactivity	Rat
Clonality	Polyclonal
Recommended application	WB, IF, ICC, ELISA
Concentration	1 mg/ml
Full name	Sodium/potassium-transporting ATPase subunit alpha-1
Synonyms	Sodium/potassium-transporting ATPase subunit alpha-1; ATP1A1; Sodium/potassium-transporting ATPase subunit alpha-1; Na ⁽⁺⁾ /K ⁽⁺⁾ ATPase alpha-1 subunit; Sodium pump subunit alpha-1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.

Recommended Dilution

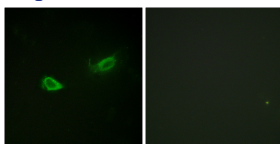
WB: 1: 500 - 1: 2000

IF: 1: 100 - 1: 300

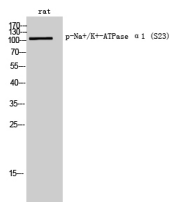
ELISA: 1: 5000

Not yet tested in other applications.

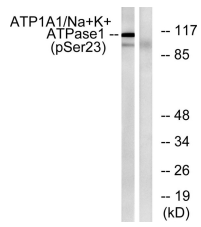
Images



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.



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



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.

Storage

-20°C for 1 year

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