

Na⁺/K⁺-ATPase α1 (phospho Ser23) Polyclonal Antibody

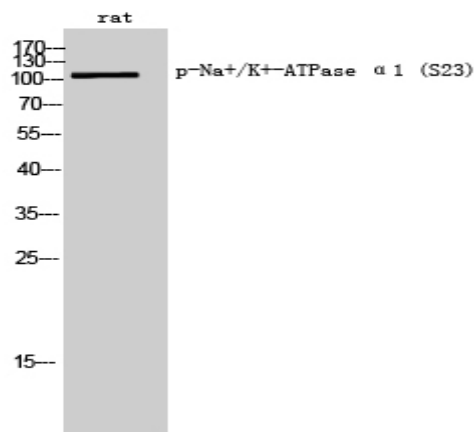
Catalog No :	YP0563
Reactivity :	Rat
Applications :	WB;IF;ELISA
Target :	Na ⁺ /K ⁺ -ATPase α1
Gene Name :	ATP1A1
Protein Name :	Sodium/potassium-transporting ATPase subunit alpha-1
Human Swiss Prot No :	P05023
Rat Gene Id :	24211
Rat Swiss Prot No :	P06685
Immunogen :	The antiserum was produced against 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.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:100 - 1:300. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 113kD

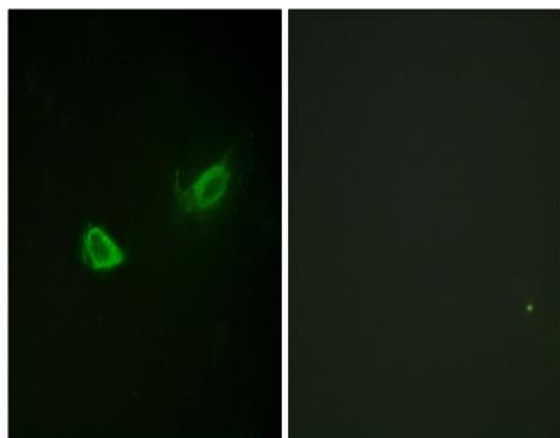
Background :

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.

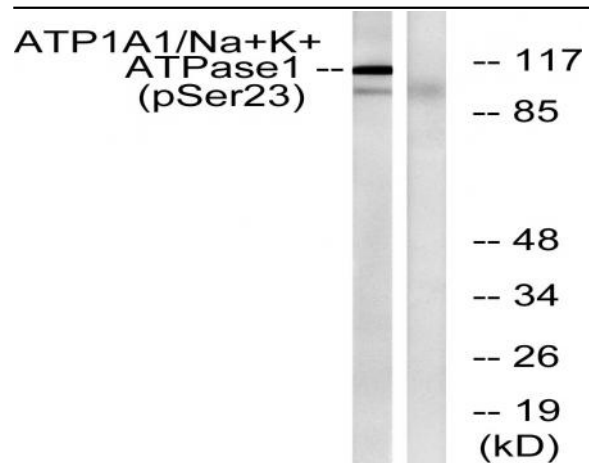
Products Images



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.



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.