

Na⁺/K⁺-ATPase α 1 Polyclonal Antibody

Cat No: HR1AP5508

For research use only

Overview

Product Name	Na ⁺ /K ⁺ -ATPase α 1 Polyclonal Antibody
Source	Rabbit
Applications	WB,IF,ELISA
Species Reactivity	Rat
Recommended Dilutions	
Immunogen	
Species	Rabbit
Storage	-20°C/1 year
Isotype	
Clonality	
Concentration	1 mg/ml
Observed band	113kDa
GeneID?Human?	ATP1A1
Human Swiss-Prot No.	
Cellular localization	
Alternative Names	ATP1A1; Sodium/potassium-transporting ATPase subunit alpha-1; Na ⁽⁺⁾ /K ⁽⁺⁾ ATPase alpha-1 subunit; Sodium pump subunit alpha-1
Background	<p>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.</p>