

## Product datasheet for **TA383780**

### ATP1A1 Rabbit Polyclonal Antibody

#### Product data:

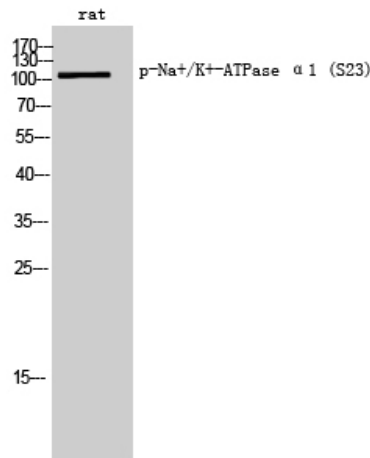
Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	WB: 1/500-1/2000 IF: 1/100-1/300 ELISA: 1/5000
Reactivity:	Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized peptide derived from rat ATP1 alpha1/Na+K+ ATPase1 around the phosphorylation site of Ser23. AA range:15-64 (Phosphorylated)
Formulation:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Observed MW (kDa):113
Database Link:	<a href="#">P06685</a>



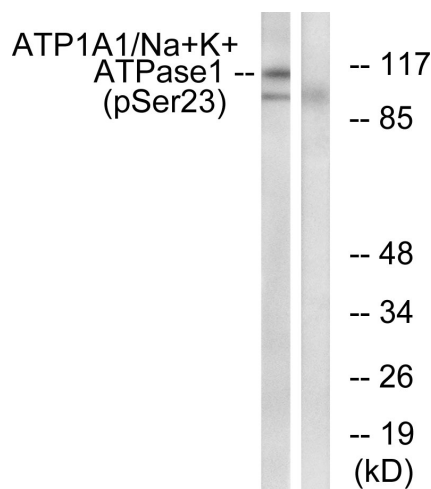
[View online »](#)

**Background:**

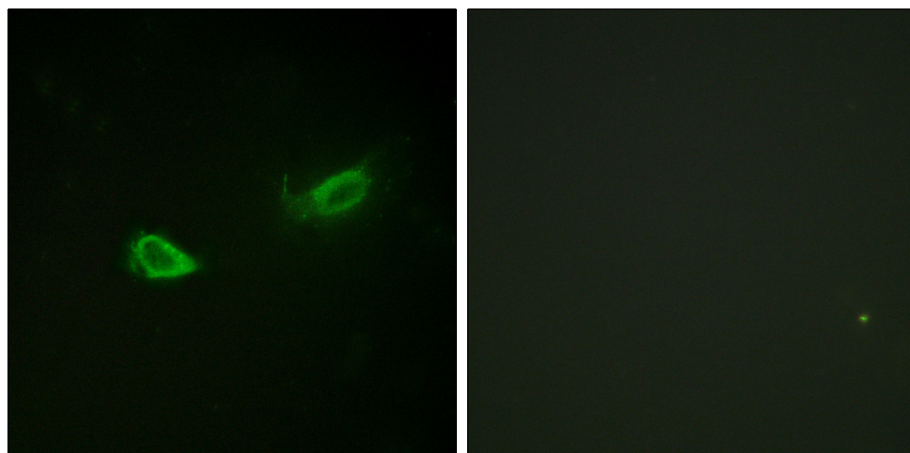
The ATPase Na<sup>+</sup>/K<sup>+</sup> transporting subunit alpha 1 encoded by ATP1A1 belongs to the family of P-type cation transport ATPases, and to the subfamily of Na<sup>+</sup>/K<sup>+</sup> -ATPases. Na<sup>+</sup>/K<sup>+</sup> -ATPase is an integral membrane protein responsible for establishing 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<sup>+</sup>/K<sup>+</sup> -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.

**Product images:**


Western blot analysis of Phospho-alpha 1 Sodium Potassium ATPase (Ser23) in rat lysates using Phospho-alpha 1 Sodium Potassium ATPase (Ser23) antibody.



Western blot analysis of Phospho-alpha 1 Sodium Potassium ATPase (Ser23) in rat brain lysates using ATP1 alpha1/Na<sup>+</sup>K<sup>+</sup> ATPase1 (Phospho-Ser23) antibody. The lane on the right is blocked with the Phospho-peptide.



Immunofluorescence analysis of Phospho-alpha 1 Sodium Potassium ATPase (Ser23) in NIH/3T3 using ATP1 alpha1/Na+K+ ATPase1 (Phospho-Ser23) antibody. The picture on the right is blocked using the Phospho- peptide.