

#### OriGene Technologies, Inc.

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# Product datasheet for TA326844

## Sodium Potassium ATPase (ATP1A1) Rabbit Polyclonal Antibody

## **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	WB,1:500 - 1:1000 IHC-P,1:50 - 1:200 IP,0.5µg-4µg antibody for 200µg-400µg extracts of whole cells ELISA,Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
Reactivity:	Human, Mouse
Host:	Rabbit
lsotype:	lgG
Clonality:	Polyclonal
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	113kDa
Gene Name:	ATPase Na+/K+ transporting subunit alpha 1
Database Link:	<u>NP_000692</u> <u>Entrez Gene 11928 MouseEntrez Gene 476 Human</u> <u>P05023</u>



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#### **GRIGENE** Sodium Potassium ATPase (ATP1A1) Rabbit Polyclonal Antibody – TA326844

Background: The protein encoded by this gene 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.
Synonyms: MGC3285; MGC51750

**Protein Families:** Druggable Genome, Transmembrane

Protein Pathways:

### **Product images:**



Cardiac muscle contraction

Western blot analysis of various lysates using ATP1A Rabbit pAb (TA326844) at 1:500 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

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Western blot analysis of lysates from HeLa cells

Immunohistochemistry analysis of paraffinembedded Human prostate using ATP1A Rabbit pAb (TA326844) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

Immunohistochemistry analysis of paraffinembedded Human stomach using ATP1A Rabbit pAb (TA326844) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

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Immunoprecipitation analysis of 200  $\mu g$  extracts of LO2 cells

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