bs-9570R **[Primary Antibody]**

ATP1A1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 476 **SWISS:** P05023

Target: ATP1A1

Immunogen: KLH conjugated synthetic peptide derived from human ATP1A1: 901-1023/1023. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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. [provided by RefSeq, May2009].

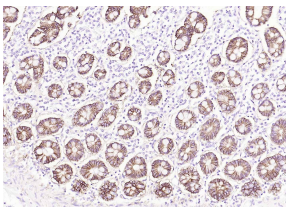
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat

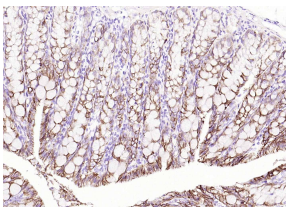
Predicted MW.: 112 kDa

Subcellular Location: Cell membrane

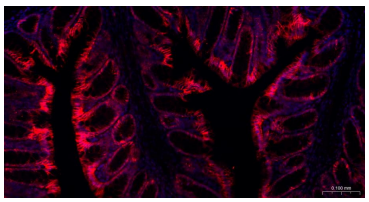
VALIDATION IMAGES



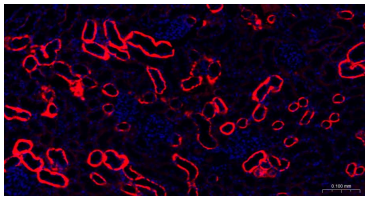
Paraformaldehyde-fixed, paraffin embedded Human Duodenum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ATP1A1 Polyclonal Antibody, Unconjugated (bs-9570R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ATP1A1 Polyclonal Antibody, Unconjugated (bs-9570R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded (mouse Colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (ATP1A1) Polyclonal Antibody, Unconjugated (bs-9570R) at 1:200 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-AF594) for 90 minutes, and DAPI for nuclei staining.



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Blocking

buffer (normal goat serum) at 37°C for 30min; Incubation with (ATP1A1) Polyclonal Antibody, Unconjugated (bs-9570R) at 1:200 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-AF594) for 90 minutes, and DAPI for nuclei staining.

SELECTED CITATIONS

- **[IF=38.3]** Krishnan Nishta. et al. A modular approach to enhancing cell membrane-coated nanoparticle functionality using genetic engineering. NAT NANOTECHNOL. 2023 Oct;:1-9 Other ;Human. 37903891
- **[IF=5.656]** Lu Y et al. Internalization Characterization of Si Nanorod with Camouflaged Cell Membrane Proteins Reveals ATXN2 as a Negative Regulator. Cells. 2019 Aug 19;8(8). pii: E931. ICC ;Mouse&Human. 31430912
- **[IF=6.1]** Shengting Deng. et al. New insights into the mechanisms of iron absorption: Iron dextran uptake in the intestines of weaned pigs through glucose transporter 5 (GLUT5) and divalent metal transporter 1 (DMT1) transporters. ANIM NUTR. 2024 Jul;: WB ;Pig. 10.1016/j.aninu.2024.05.006