bs-4255R **[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.

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].

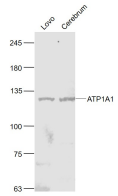
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Chicken, GuineaPig)

Predicted MW.: 113 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lovo(Human) Cell Lysate at 30 ug Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-ATP1A1 (bs-4255R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 113 kD Observed band size: 113 kD

SELECTED CITATIONS

- **[IF=6.044]** Zhang WN et al. Structural characterization and in vitro hypoglycemic activity of a glucan from Euryale ferox Salisb. seeds. Carbohydr Polym. 2019 Apr 1;209:363-371. WB ;Human. 30732819
- **[IF=3.098]** Zhang et al. Astragalus Polysaccharide Improves Insulin Sensitivity via AMPK Activation in 3T3-L1 Adipocytes. (2018) Molecules. 23 WB ;Mouse. 30347867
- **[IF=3.391]** Shanshan Wu et al. Disrupted potassium ion homeostasis in ciliary muscle in negative lens-induced myopia in Guinea pigs. Arch Biochem Biophys. 2020 Jul 30;688:108403. WB ;guinea pigs. 32418893