

**bs-4255R****[ Primary Antibody ]****BioSS**  
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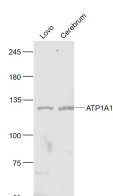
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**ATP1A1 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 476 <b>Target:</b> ATP1A1 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human ATP1A1: 901-1023/1023. < Extracellular > <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 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. <b>Background:</b> The protein encoded by this gene 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. [provided by RefSeq, May2009].	<b>Isotype:</b> IgG <b>SWISS:</b> P05023 <b>Applications:</b> WB (1:500-2000) <b>Reactivity:</b> Human, Mouse (predicted: Rat, Rabbit, Pig, Chicken, GuineaPig) <b>Predicted MW.:</b> 113 kDa <b>Subcellular Location:</b> Cell membrane
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**— 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=5.6]** Shiyi Chen. et al. Targeting GSDMD JX06 inhibits PANoptosis and multiple organ injury. BIOCHEM PHARMACOL. 2025 Jan;:116765 WB ;Mouse. 39848475
- **[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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

in Guinea pigs. Arch Biochem Biophys. 2020 Jul 30;688:108403. WB ;guinea pigs. 32418893