



# Na<sup>+</sup>/K<sup>+</sup>-ATPase α1 (phospho Ser23) Polyclonal Antibody

|                    |                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-16336                                                                                                                                                                                                                                                                                                                                                                                |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                       |
| Reactivity         | Rat                                                                                                                                                                                                                                                                                                                                                                                       |
| Applications       | WB;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Name          | ATP1A1                                                                                                                                                                                                                                                                                                                                                                                    |
| Protein Name       | Sodium/potassium-transporting ATPase subunit alpha-1                                                                                                                                                                                                                                                                                                                                      |
| Immunogen          | The antiserum was produced against synthesized peptide derived from rat ATP1 alpha1/Na <sup>+</sup> /K <sup>+</sup> ATPase1 around the phosphorylation site of Ser23. AA range:15-64                                                                                                                                                                                                      |
| Specificity        | Phospho-Na <sup>+</sup> /K <sup>+</sup> -ATPase α1 (S23) Polyclonal Antibody detects endogenous levels of Na <sup>+</sup> /K <sup>+</sup> -ATPase α1 protein only when phosphorylated at S23.                                                                                                                                                                                             |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                   |
| Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                    |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                     |
| Dilution           | Western Blot: 1/500 - 1/2000. IF: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.                                                                                                                                                                                                                                                                                     |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                      |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                              |
| Synonyms           | ATP1A1; Sodium/potassium-transporting ATPase subunit alpha-1; Na(+)/K(+) ATPase alpha-1 subunit; Sodium pump subunit alpha-1                                                                                                                                                                                                                                                              |
| Observed Band      | 113kD                                                                                                                                                                                                                                                                                                                                                                                     |
| Cell Pathway       |                                                                                                                                                                                                                                                                                                                                                                                           |
| Tissue Specificity |                                                                                                                                                                                                                                                                                                                                                                                           |
| Function           |                                                                                                                                                                                                                                                                                                                                                                                           |
| 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 |

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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.

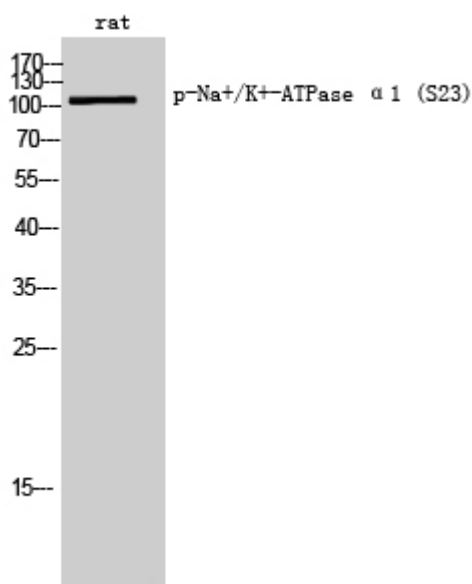
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



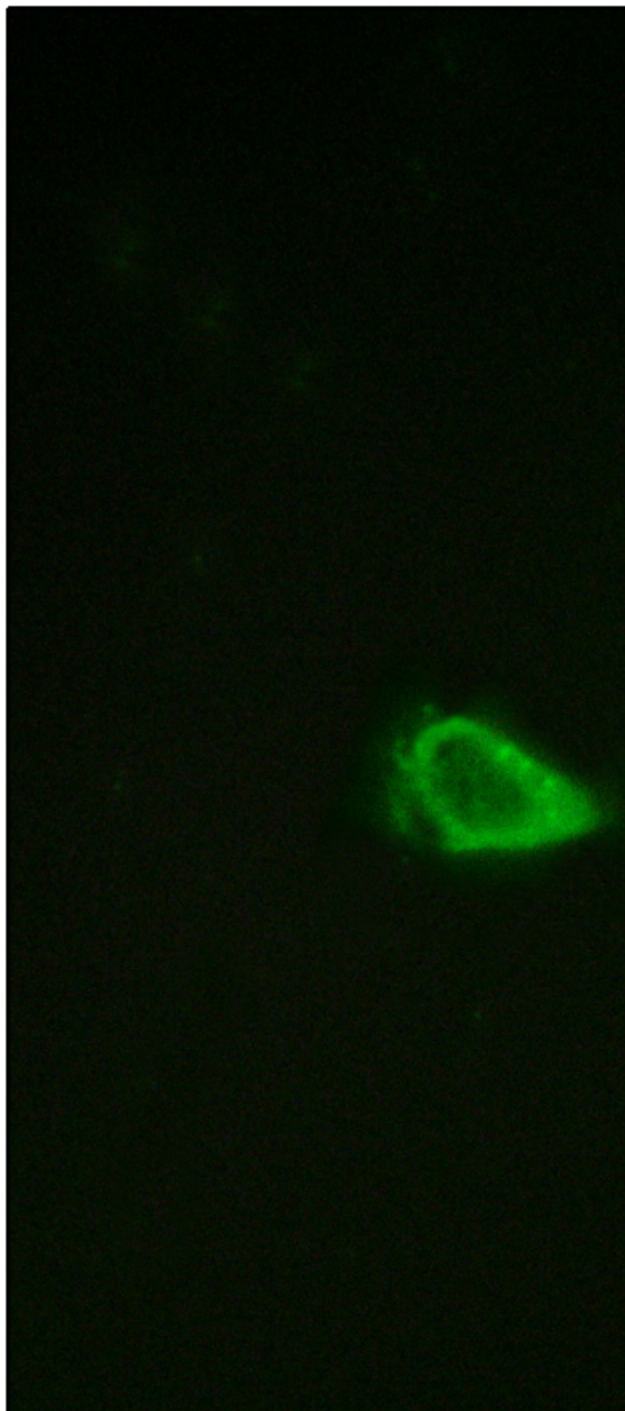
Western Blot analysis of rat cells using  
Phospho-Na<sup>+</sup>/K<sup>+</sup>-ATPase α1 (S23) Polyclonal  
Antibody

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Immunofluorescence analysis of NIH/3T3 cells, using ATP1 alpha1/Na<sup>+</sup>K<sup>+</sup> ATPase1 (Phospho-Ser23) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from rat brain, using ATP1 alpha1/Na+K+ ATPase1 (Phospho-Ser23) Antibody. The lane on the right is blocked with the phospho peptide.

ATP1A1/  
ATF  
(pS



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