# Data Sheet (Cat.No.TMAC-02741)

## Anti-Phospho-ATP1A1 (Ser16) Polyclonal Antibody

### Product Details

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| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat |
| Conjugation: | Unconjugated |
| Molecular Weight: | Actual: 112 kDa. |
| Purification: | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

### Applications

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| Application: | ELISA,IF,IHC-P,WB |
| Recommended | WB: 1:500-2000; IHC-P: 1:100-300; ELISA: 1:5000 |

### Properties

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| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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| Immunogen: | A synthesized phosphopeptide: human ATPase around the phosphorylation site of Ser16. AA range:5-54 |
| Antigen Species: | Human |
| Uniprot ID: | P05023 |
| Synonyms: | ATP1A1 (p-Ser16);p-ATP1A1 (S16);ATP1A1 (p-S16);p-ATP1A1 (Ser16) |

### Research Background

ATPase Na+/K+ transporting subunit alpha 1(ATP1A1)  Homo sapiens  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, May 2009],



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