



## Mouse monoclonal antibody to Sodium Potassium ATPase - alpha subunit (646-652) [IMD-66]: IgG

<b>Catalogue No.:</b>	M-985-100
<b>Description:</b>	Na <sup>+</sup> /K <sup>+</sup> ATPase is an integral membrane heterodimer belonging to the family of P-type cation transport ATPases. The enzyme is comprised of a large catalytic alpha subunit and a smaller beta subunit. The alpha subunit catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 ug
<b>Antigen:</b>	Sheep kidney alpha subunit of Sodium Potassium ATPase. The epitope recognized by this antibody is between amino acids 646 and 652.
<b>Clone:</b>	IMD-66
<b>Other Names:</b>	Na <sub>2</sub> K-ATPase; ATP1A1; Atpa-1;
<b>Accession:</b>	P05023 TAT1A1_HUMAN
<b>Produced in:</b>	Mouse
<b>Purity:</b>	IgG
<b>Applications:</b>	Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 2.0-4.0 ug/mL is recommended for WB. Boiling the protein is not recommended as it causes aggregation. Human Na <sup>+</sup> /K <sup>+</sup> ATPase subunit alpha 1 has a predicted length of 1,023 amino acids and a MW of 113 kDa. A concentration of 4.0-8.0 ug/mL is recommended to detect Na <sup>+</sup> /K <sup>+</sup> ATPase subunit alpha 1 in formalin or acetone fixed tissues. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
<b>Cross-reactivity:</b>	Human; chicken;
<b>Form:</b>	Lyophilized from 1.2% sodium acetate, 2mg BSA, 0.01mg Na <sub>3</sub>
<b>Reconstitution:</b>	Reconstitute in 1 mL of PBS (pH 7.4) to achieve an antibody concentration of 100 ug/mL. Centrifuge to remove any insoluble material.
<b>Storage:</b>	At least 12 months after purchase at 2-8C (lyophilized formulations). After reconstitution, aliquot and store at -20C for a higher stability. Avoid freeze-thaw cycles.
<b>Expiry Date:</b>	12 months after purchase

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