

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Na<sup>+</sup>/K<sup>+</sup>-ATPase $\alpha$ 1 (A254) Peptide

Cat No.: BS3190P

#### Background

The ubiquitously expressed sodium/potassium-ATPase (Na<sup>+</sup>/K<sup>+</sup>-ATPase) exists as a oligomeric plasma membrane complex that couples the hydrolysis of one molecule of ATP to the importation of three Na<sup>+</sup> ions and two K<sup>+</sup> ions against their respective electrochemical gradients. As a member of the P-type family of ion motives, Na<sup>+</sup>/K<sup>+</sup>-ATPase plays a critical role in maintaining cellular volume, resting membrane potential and Na<sup>+</sup>-coupled solute transport. Multiple isoforms of three subunits,  $\alpha$ ,  $\beta$  and  $\gamma$ , comprise to form the Na<sup>+</sup>/K<sup>+</sup>-ATPase oligomer. The  $\alpha$  subunit contains the binding sites for ATP and the cations; the glycosylated  $\beta$  subunit ensures correct folding and membrane insertion of the  $\alpha$  subunits. The small  $\gamma$  subunit co-localizes with the  $\alpha$  subunit in nephron segments, where it increases the affinity of Na<sup>+</sup>/K<sup>+</sup>-ATPase for ATP.

#### Swiss-Prot

P06685

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS3190 Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 (A254) pAb.

#### Purification & Purity

Synthetic peptide Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 (A254). (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

#### Research Use

For research use only, not for use in diagnostic procedure.