

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Na<sup>+</sup>/K<sup>+</sup>-ATPase $\alpha$ 1 (Y10) Peptide

Cat No.: BS1436P

#### Background

The sodium/potassium ATPase is an integral membrane enzyme found in all cells of higher organisms and is responsible for the ATP dependent transport of sodium and potassium across the cell membrane. This membrane bound enzyme is related to a number of other ATPases including sarcoplasmic and endoplasmic reticulum calcium ATPase (SERCA) and plasma membrane calcium ATPase (PMCA). The sodium / potassium ATPase consists of a large, multipass, transmembrane catalytic subunit, termed the alpha subunit, and an associated smaller glycoprotein, termed the beta subunit. Studies indicate that there are three isoforms of the alpha subunit (alpha 1, alpha 2, alpha 3) and two isoforms of the beta subunit (beta 1 and beta 2) encoded by two multigene families. The different isoforms of the sodium / potassium ATPase exhibit tissue specific and developmental patterns of expression. The alpha 1 and beta mRNAs are present in all cell types examined, whereas the alpha 2 and alpha 3 mRNAs exhibit a more restricted pattern of cell specific expression. The alpha subunit has been found in kidney, brain, heart, and to a lesser extent liver, skeletal and smooth muscle.

#### Swiss-Prot

P05023

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS1436 Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 (Y10) pAb.

#### Purification & Purity

Synthetic peptide Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 (Y10). (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.

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