

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Na<sup>+</sup> CP type II $\alpha$ (K1032) Peptide

Cat No.: BS3562P

#### Background

Voltage-gated sodium channels are selective ion channels that regulate the permeability of sodium ions in excitable cells. During the propagation of an action potential, sodium channels allow an influx of sodium ions, which rapidly depolarize the cell. The  $\alpha$  subunits of sodium channels type I and III are predominantly expressed in neuronal cell bodies and proximal processes, while type II $\alpha$  subunits are more abundant along axons. The  $\beta$ 1 subunit of sodium channel type I is expressed in brain, skeletal and cardiac muscle. In the brain,  $\beta$ 1 and  $\beta$ 2 are highly expressed in Purkinje cells, and  $\beta$ 1 is also expressed in the pyramidal cells of the deep cerebellar nuclei. Impaired voltage-gated sodium channels lead to a number of diseases including myotonia.

#### Swiss-Prot

Q99250

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS3562 Na<sup>+</sup> CP type II $\alpha$  (K1032) pAb.

#### Purification & Purity

Synthetic peptide Na<sup>+</sup> CP type II $\alpha$  (K1032). (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.