

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### NHE-7 (D566) Peptide

Cat No.: BS3400P

#### Background

Na<sup>+</sup>/H<sup>+</sup> exchangers (NHE) of mammalian cells are plasma membrane intrinsic proteins mediating exchange of Na<sup>+</sup> and H<sup>+</sup> ions in various tissues. The NHE catalyzes the electroneutral transport of extracellular Na<sup>+</sup> for intracellular H<sup>+</sup>. They play a major role in regulation of intracellular pH (pHi) in addition to trans-cellular absorption of Na<sup>+</sup>, cell volume regulation and possibly in cell proliferation. These primary functions of the Na<sup>+</sup>/H<sup>+</sup> exchanger have been related to many pathophysiological states, include hypertension, organ growth and hypertrophy, regression of cancer and renal intestinal disorders. At least 7 NHE isoforms (NHE1-7) have been cloned so far. They are all similar in their primary structure and predicted to have 10-12 transmembrane domains. The C-terminal domain of NHEs are predicted to be intracellular. NHE7 (human 725 aa, chromosome Xp11.4) is ubiquitously expressed, and predominantly localizes to the trans-golgi network. NHE7 mediates the influx of Na<sup>+</sup> or K<sup>+</sup> in exchange for H<sup>+</sup>. It is ~70% related to NHE6 but relatively less (~25%) homologous with other NHEs.

#### Swiss-Prot

Q96T83

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS3400 NHE-7 (D566) pAb.

#### Purification & Purity

Synthetic peptide NHE-7 (D566). (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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