

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### NPAS2 Peptide

Cat No.: BS5828P

#### Background

Members of the basic helix-loop-helix-PER-ARNT-SIM (bHLH-PAS) family are transcription factors that contain a bHLH DNA binding domain located amino-terminal to a PAS domain. Neuronal PAS domain protein 2 (NPAS2, also designated PAS 4/MOP4) is a member of the bHLH-PAS family and the PAS superfamily. NPAS2, which maps to chromosome 2p11.2-2q13, is expressed primarily in the neurons during the first week of postnatal development. The pattern of NPAS2 expression temporally matches the development of learning and memory, and spatially matches the frontal association/limbic forebrain pathway. NPAS2 may serve a regulatory role in the development and maintenance of long-term memory, and may be required for the processing of complex sensory information. NPAS2 and MOP3 form a transcriptionally active heterodimer which binds to a CACGTGA-containing DNA element and drives transcription from a linked luciferase reporter gene.

#### Swiss-Prot

Q99743

#### Applications

#### Blocking

#### Specificity

This peptide can be used with studies using BS5828 NPAS2 pAb.

#### Purification & Purity

Synthetic peptide NPAS2. (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.

Bioworld Technology, Inc.  
1660 South Highway 100, Suite 500 St. Louis Park, MN  
55416, USA. Email: [info@bioworld.com](mailto:info@bioworld.com)  
Tel: 6123263284 Fax: 6122933841

Bioworld technology, co, Ltd.  
No 9, weidi road Qixia District Nanjing, 210046,  
P, R.China. Email: [info@biogot.com](mailto:info@biogot.com)  
Tel: +86-025-68037686 Fax: +86-025-68035151