

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### MKP-4 (A174) Peptide

Cat No.: BS2348P

#### Background

Mitogen-activated protein (MAP) kinases are a large class of proteins involved in signal transduction pathways that are activated by a range of stimuli and mediate a number of physiological and pathological changes in the cell. Dual specificity phosphatases (DSPs) are a subclass of the protein tyrosine phosphatase (PTP) gene superfamily, which are selective for dephosphorylating critical phosphothreonine and phosphotyrosine residues within MAP kinases. DSP gene expression is induced by a host of growth factors and/or cellular stresses, thereby negatively regulating MAP kinase superfamily members including MAPK/ERK, SAPK/JNK and p38. The members of the dual-specificity phosphatase protein family include MKP-1/CL100 (3CH134), VHR, PAC1, MKP-2, hVH-3 (B23), hVH-5, MKP-3, MKP-X and MKP-4. Human MKP-1 maps to chromosome 5q34 and encodes a 367 amino acid, 39 kDa protein that dephosphorylates MAP kinase ERK2 on both Thr-183 and Tyr-185.

#### Swiss-Prot

Q99956

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS2348 MKP-4 (A174) pAb.

#### Purification & Purity

Synthetic peptide MKP-4 (A174). (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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