

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### IKK $\alpha$ / $\beta$ (Q174) Peptide

Cat No.: BS1756P

#### Background

The NF- $\kappa$ B/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory I $\kappa$ B proteins. Most agents that activate NF- $\kappa$ B do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of I $\kappa$ B. The key regulatory step in this pathway involves activation of a high molecular weight I $\kappa$ B kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKK $\alpha$  and IKK $\beta$  serve as the catalytic subunits of the kinase and IKK $\gamma$  serves as the regulatory subunit. Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKK $\beta$  (Ser176 and Ser180 in IKK $\alpha$ ), which causes conformational changes, resulting in kinase activation.

#### Swiss-Prot

O15111/O14920

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS1756 IKK $\alpha$ / $\beta$  (Q174) pAb.

#### Purification & Purity

Synthetic peptide IKK $\alpha$ / $\beta$  (Q174). (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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