

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### PKR (R445) Peptide

Cat No.: BS3652P

#### Background

An interferon-inducible, RNA-dependent protein serine/threonine kinase (PKR) has been described. PKR in earlier literature is variously known as DAI, dsJ, PI kinase, p65, p67 or TIK for the mouse kinase; and p68 or p69 for the human kinase. The PKR kinase substrate is the  $\alpha$  subunit of protein synthesis initiation factor eIF-2. Phosphorylation of eIF-2 $\alpha$  on serine-51 results in inhibition of translation. Molecular cDNA clones have been isolated from both human and mouse cells. The serine/threonine kinase catalytic domains map to the carboxy terminal half of the protein while the RNA-binding domains are located in the amino terminal region. Three kinds of regulation of PKR enzymatic activity have been described.

#### Swiss-Prot

P19525

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS3652 PKR (R445) pAb.

#### Purification & Purity

Synthetic peptide PKR (R445). (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.