

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### p-ZAP70 (Y315) Peptide

Cat No.: BS4884P

#### Background

The activation of T lymphocytes by antigens is mediated by the T cell receptor (TCR), which is a multisubunit complex assembled from at least six different genes. The TCR subunits include the  $\alpha$  and  $\beta$  chains, the CD3  $\epsilon$ ,  $\delta$  and  $\zeta$  chains and a  $\zeta$ -containing homodimer or heterodimer. The protein tyrosine kinase ZAP-70 binds to the phosphorylated immunoreceptor tyrosine-base activation motifs (ITAMs) of the TCR  $\zeta$  chain through two src-homology (SH2) domains. This binding results in the phosphorylation of ZAP-70 on multiple tyrosine residues, including Tyr292 and Tyr319. ZAP-70 is autophosphorylated on Tyr292, which is thought to negatively regulate ZAP-70 function in lymphocytes. Alternatively, ZAP-70 is positively regulated by phosphorylation on Tyr319, which mediates the SH2-dependent interaction between Lck and ZAP-70.

#### Swiss-Prot

P43403

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS4884 p-ZAP70 (Y315) pAb.

#### Purification & Purity

Synthetic peptide p-ZAP70 (Y315). (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.