Bioworld Technology CO., Ltd.

ZAP70 (Tyr292) Peptide

Cat No.: AP0158P

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 Ti a and b chains, the CD3 g , d and e chains and a z -containing homodimer or heterodimer . The protein tyrosine kinase ZAP-70 binds to the phosphorylated immunoreceptor tyrosine-base activation motifs (ITAMs) of the TCR z 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 AP0158 ZAP70 (Tyr292) pAb.

Purification & Purity

Synthetic peptide ZAP70 (Tyr292). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.

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