

## ZAP70 (phospho-Tyr292) polyclonal antibody

Catalog: AP0080

Host: Rabbit

Reactivity: Human,Rat

### 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.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 70 kDa

### Swiss-Prot:

P43403

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

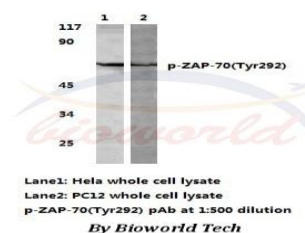
### Storage&Stability:

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

### Specificity:

p-ZAP-70(Tyr292) polyclonal antibody detects endogenous levels of ZAP-70 protein only when phosphorylated at Tyr292.

### DATA:



Western blot (WB) analysis of p-ZAP70 (Tyr292) pAb

### Note:

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

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