

ZAP70 (phospho-Y315) polyclonal antibody

Catalog: BS4884

Host: Rabbit

Reactivity: Human, Mouse, 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 α and β chains, the CD3 γ , δ and ϵ chains and a ζ -containing homodimer or heterodimer. The protein tyrosine kinase ZAP-70 binds to the phosphorylated immunoreceptor tyrosine-base activation motifs (ITAMs) of the TCR ζ 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 0.05% 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

IHC: 1:50~1:200

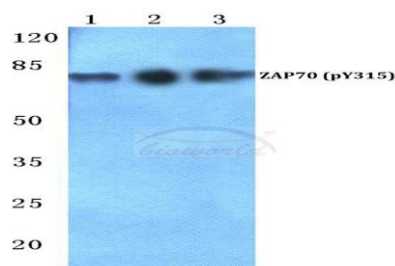
Storage&Stability:

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

Specificity:

p-ZAP70 (Y315) polyclonal antibody detects endogenous levels of ZAP70 protein only when phosphorylated at Tyr315.

DATA:

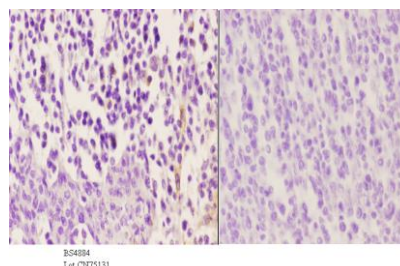


Western blot (WB) analysis of p-ZAP70 (Y315) polyclonal antibody at 1:500 dilution

Lane1:Hela cell lysate treated with H₂O₂(100 μ M,15mins)

Lane2:Mouse kidney tissue lysate

Lane3:Rat kidney tissue lysate



Immunohistochemistry (IHC) analyzes of p-ZAP70 (Y315) pAb in paraffin-embedded human tonsil carcinoma tissue at 1:50, showing cytoplasmic and cell membrane staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

Note:

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

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