KIT (phospho-Y936) polyclonal antibody

Catalog: BS64218 Host: Rabbit Reactivity: Human

BackGround:

c-Kit is a member of the subfamily of receptor tyrosine kinases that includes PDGF, CSF-1, and FLT3/flk-2 receptors. It plays a critical role in activation and growth in a number of cell types including hematopoietic stem cells, mast cells, melanocytes, and germ cells. Upon binding with its stem cell factor (SCF) ligand, c-Kit undergoes dimerization/oligomerization and autophosphorylation. Activation of c-Kit results in the recruitment and tyrosine phosphorylation of downstream SH2-containing signaling components including PLCγ, the p85 subunit of PI3 kinase, SHP2, and CrkL. Molecular lesions that impair the kinase activity of c-Kit are associated with a variety of developmental disorders, and mutations that constitutively activate c-Kit can lead to pathogenesis of mastocytosis and gastrointestinal stromal tumors. Tyr719 is located in the kinase insert region of the catalytic domain. c-Kit phosphorylated at Tyr719 binds to the p85 subunit of PI3 kinase in vitro and in vivo.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 145 kDa

Swiss-Prot:

P10721

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

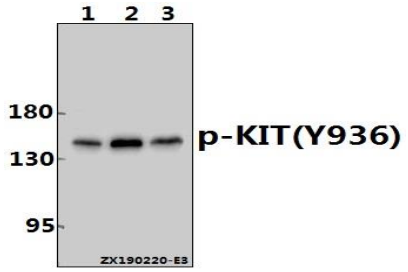
Storage&Stability:

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

Specificity:

KIT(Phospho-Y936) polyclonal antibody detects endogenous levels of KIT protein only when phosphorylated at Tyr936.

DATA:



Western blot (WB) analysis of KIT(Phospho-Y936) polyclonal antibody at 1:500 dilution

Lane1:A375 whole cell lysate(40ug)

Lane2:SGC7901 whole cell lysate(40ug)

Lane3:A2780 whole cell lysate(40ug)

Note:

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

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