

## PDGFR- $\beta$ (phospho-Y1009) polyclonal antibody

Catalog: BS64002

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

PDGF is a mitogen for mesenchyme- and glia-derived cells. It consists of two disulfide-bonded polypeptide chains, A and B, and occurs as three isoforms, PDGF-AA, PDGF-AB and PDGF-BB. The three isoforms bind with different affinities to two receptor types, A and B, which are structurally related and possess protein-tyrosine kinase domains. Ligand binding induces activation of the receptor kinases by formation of receptor dimers; the A subunit of PDGF binds only to A receptors with high affinity, whereas the B subunit can bind to both A and B receptors. Evidence suggests that PDGF may function as a neurotrophic factor. The fact that PDGF type A receptors are expressed in oligodendrocyte progenitor cells whereas PDGF type B receptors are expressed on neurons suggests that the different isoforms of PDGF may regulate growth and differentiation of different cell types in the developing central nervous system by paracrine and autocrine routes.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH 7.2

### Molecular Weight:

~ 190 kDa

### Swiss-Prot:

P09619

### Purification & Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

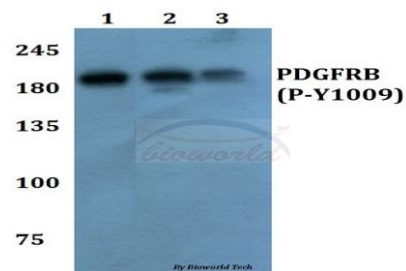
### Storage & Stability:

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

### Specificity:

p-PDGFR- $\beta$  (Y1009) polyclonal antibody detects endogenous levels of PDGFR- $\beta$  protein only when phosphorylated at Tyr1009.

### DATA:



Western blot (WB) analysis of p-PDGFR- $\beta$  (Y1009) polyclonal antibody at 1:500 dilution

Lane 1: A549 cell lysate treated with EGF (0.1 ng/ml, 30 mins)

Lane 2: Raw264.7 cell lysate treated with EGF (0.1 ng/ml, 30 mins)

Lane 3: PC12 cell lysate treated with EGF (0.1 ng/ml, 30 mins)

### Note:

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

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