

PDGFR beta (Phospho-Y857) polyclonal antibody

Catalog: BS67433

Host: **F**

Rabbit

Reactivity: Human

BackGround:

Platelet derived growth factor (PDGF) family proteins exist as several disulphide-bonded, dimeric isoforms (PDGF AA, PDGF AB, PDGF BB, PDGF CC, and PDGF DD) that bind in a specific pattern to two closely related receptor tyrosine kinases, PDGF receptor α (PDGFR α) and PDGF receptor β (PDGFR β). PDGFR α and PDGFR β share 75% to 85% sequence homology between their two intracellular kinase domains, while the kinase insert and carboxy-terminal tail regions display a lower level (27% to 28%) of homology . PDGFRa homodimers bind all PDGF isoforms except those containing PDGF D. PDG-FR_β homodimers bind PDGF BB and DD isoforms, as well as the PDGF AB heterodimer. The heteromeric PDGF receptor a/b binds PDGF B, C, and D homodimers, as well as the PDGF AB heterodimer . PDGFR α and PDGFR β can each form heterodimers with EGFR, which is also activated by PDGF. Various cells differ in the total number of receptors present and in the receptor subunit composition, which may account for responsive differences among cell types to PDGF binding. Ligand binding induces receptor dimerization and autophosphorylation, followed by binding and activation of cytoplasmic SH2 domain-containing signal transduction molecules, such as GRB2, Src, GAP, PI3 kinase, PLCy, and NCK. A number of different signaling pathways are initiated by activated PDGF receptors and lead to control of cell growth, actin reorganization, migration, and differentiation . Tyr751 in the kinase-insert region of PDGFR β is the docking site for PI3 kinase . Phosphorylated pentapeptides derived from Tyr751 of PDGFRβ (pTyr751-Val-Pro-Met-Leu) inhibit the association of the carboxy-terminal SH2 domain of the p85 subunit of PI3 kinase with PDGFR β . Tyr740 is also required for PDG-FRβ-mediated PI3 kinase activation.

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. **Molecular Weight:**

~ 180 kDa

Swiss-Prot:

P09619

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at $4 \,^{\circ}{\rm C}$ short term. Aliquot and store at $-20 \,^{\circ}{\rm C}$ long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of PDGFR beta with a site at pY857 protein.

DATA:



Western blot analysis of PDGFR beta (pY857) expression in MCF7 (A) whole cell lysates.

Note:

Fax:

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

Product:

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