

CD140a polyclonal antibody

Catalog: NCP0265P

Host:

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. PDGFRa 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 PDGFR_β (pTyr751-Val-Pro-Met-Leu) inhibit the association of the carboxy-terminal SH2 domain of the p85 subunit of PI3 kinase with PDGFRB. Tyr740 is also required for PDGFRβ-mediated PI3 kinase activation.

Product:

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 Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

Molecular Weight:

Swiss-Prot:

P16234

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:

IF: 1:100~1:500

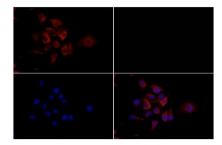
Storage&Stability:

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

Specificity:

CD140a polyclonal antibody detects endogenous levels of CD140a protein.

DATA:



Immunofluores-

cence analysis of HepG2 cells using CD140a pAb at dilution of 1:200 (4 0x lens).

Note:

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

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