

Code No. 10351

**Anti-Human
PDGFR β (22B1) Mouse IgG MoAb**Volume : 100 μ g

Introduction : PDGF, a ligand of PDGFR, has 4 isoforms, A-, B-, C- and D-chains, and forms hetero and/or homo dimers, PDGF-AA, -AB, -BB, -CC, -DD. On the other hand, PDGFR has 2 isoforms, α - and β -chains and forms hetero and/or homo dimers, PDGFR- $\alpha\alpha$, - $\alpha\beta$ and - $\beta\beta$. PDGF-A and PDGF-C binds specifically to PDGFR- α , PDGF-B binds to PDGFR- α and PDGFR- β , and PDGF-D binds specifically to PDGFR- β . In other words, PDGF-AA and PDGF-CC can activate only PDGFR- $\alpha\alpha$, while PDGF-AB can activate PDGFR- $\alpha\alpha$ and PDGFR- $\alpha\beta$, and PDGF-BB can activate PDGFR- $\alpha\alpha$, - $\alpha\beta$ and - $\beta\beta$. While, PDGF-DD has been reported to be able to activate PDGFR- $\alpha\beta$ as well as PDGFR - $\beta\beta$. When the receptor is dimerized, tyrosine kinase activity in the intracellular region increases and auto-phosphorylation of the tyrosine residue takes place.

This monoclonal antibody recognizes PDGFR β by W.B. and I.P. applications and it enables FACS analysis of PDGFR β -expressing cells. It has been confirmed that the addition of this antibody does not induce ligand-binding-dependent phosphorylation of PDGFR β and it may be used as a neutralizing antibody.

Antigen : Recombinant protein of extracellular domain of human PDGFR β

Source : Mouse-Mouse hybridoma
(X63 - Ag 8.653 \times BALB/c mouse spleen cells, supernatant)

Clone : 22B1 **Subclass** : IgG₁

Purification : Affinity purified with protein A

Form : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN₃

How to use : 1.0 mL deionized water will be added to the product, then its concentration comes to 100 μ g/mL

Stability : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at -20 °C

Application : This antibody can be used for western blotting at 1 – 5 μ g/mL.
: This antibody can be used for immuno-precipitation in concentration of about 3 - 5 μ g /test.
: This antibody can be used for FACS at 0.1 - 0.5 μ g (per 1 \times 10⁵ cells).
: This antibody can be used for neutralization assay at 10 μ g/mL against the phosphorylation induced by ligand-binding at 20ng/mL.
* For neutralization assay, please request for the antibody without BSA and NaN₃. (product code. 10347F)

Specificity : Confirmed by western blotting with TIG-7 cell.

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