IBL *Data Sheet*

Code No. 10351F

**Anti- Human
PDGFR β (22B1) Mouse IgG MoAb (Frozen)**

Volume   **:** 100 μ g (0.1 mg/mL, 1.0 mL)

Introduction **:** PDGF, a ligand of PDGFR, has 4 isofoms, 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-αα, -αβ and –ββ. 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 PDGF-αα, while PDGF-AB can activate PDGFR-αα and PDGFR-αβ, and PDGF-BB can activate PDGFR-αα, -αβ and –ββ. While, PDGF-DD has been reported to be able to activate PDGFR-αβ as well as PDGFR -ββ. 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-Ag8.653×BALB/c spleen cells)

Clone **:** 22B1   **Subclass** **:** IgG$_1$

Purification **:** Affinity Purified with protein A

Form **:** Frozen product in PBS (Non-containing BSA and NaN$_3$, sterilized)

Stability **:** 2 years at –20 ℃

Application **:** This antibody can be used for neutralization assay at 10 μ g/mL against the phosphorylation induced by ligand-binding at 20 ng/mL.

: This antibody can be used for western blotting at 1～5 μ g/mL.
: This antibody can be used for immunoprecipitation at 3～5 μ g/mL.
: This antibody can be used for FACS at 0.1～0.5 μ g (per 1×10^5 cells).

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