

Anti-Mouse CD140b (PDGF Receptor b) SAFIRE Purified

Catalog Number :12522-25

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: APB5

Format/Conjugate: SAFIRE Purified

Concentration: 1.0 mg/mL

Reactivity: Mouse

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Rat IgG2a, kappa

Formulation: Phosphate-buffered aqueous solution, pH7.2.

Storage: Product should be kept at 2-8°C.

Applications: FC, FA

Description

The APB5 monoclonal antibody specifically binds to the mouse CD140b molecule, otherwise known as the Platelet-Derived Growth Factor (PDGF) Receptor beta chain. CD140b is a receptor tyrosine kinase expressed on embryonic tissue and adult mesenchymal-derived cells. The APB5 antibody is reported to block the binding of PDGF-BB to the PDGF receptor.

Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References

- Jo, N., Mailhos, C., Ju, M., Cheung, E., Bradley, J., Nishijima, K., ... Shima, D. T. (2006). Inhibition of platelet-derived growth factor B signaling enhances the efficacy of anti-vascular endothelial growth factor therapy in multiple models of ocular neovascularization. *The American journal of pathology*, 168(6), 2036-2053.
- Sano, H., Sudo, T., Yokode, M., Murayama, T., Kataoka, H., Takakura, N., ... Kita, T. (2001). Functional blockade of platelet-derived growth factor receptor- β but not of receptor- α prevents vascular smooth muscle cell accumulation in fibrous cap lesions in apolipoprotein E-deficient mice. *Circulation*, 103(24), 2955-2960.
- Soriano, P. (1994). Abnormal kidney development and hematological disorders in PDGF beta-receptor mutant mice. *Genes development*, 8(16), 1888-1896.