

Anti-Mouse CD140a (PDGF Receptor α) APC

Catalog Number :12512-80

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

Product Information

Clone: APA5

Format/Conjugate: APC

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

Brightness (1=dim,5=brightest): 5

Isotype: Rat IgG2a, kappa

Formulation: Phosphate-buffered aqueous solution, $\leq 0.09\%$ Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The APA5 monoclonal antibody specifically binds to the mouse CD140a molecule, otherwise known as the Platelet-Derived Growth Factor (PDGF) Receptor α chain. CD140a is a receptor tyrosine kinase expressed on embryonic tissues and adult mesenchymal-derived cells. It binds to PDGF A and B chains and is reported to be involved with wound healing and exhibits chemo-attractant properties. The APA5 antibody blocks the binding of PDGF-AA to the PDGF receptor.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted biotin was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 μ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Fruttiger, M., Calver, A. R., Krüger, W. H., Mudhar, H. S., Michalovich, D., Takakura, N., ... Richardson, W. D. (1996). PDGF mediates a neuron;astrocyte interaction in the developing retina.; *Neuron*;17(6), 1117-1131.
2. Takakura, N., Yoshida, H., Ogura, Y., Kataoka, H., Nishikawa, S., Nishikawa, S. I. (1997). PDGFR α expression during mouse embryogenesis: immunolocalization analyzed by whole-mount immunohistostaining using the monoclonal anti-mouse PDGFR α antibody APA5.; *Journal of Histochemistry Cytochemistry*;45(6), 883-893.
3. Takakura, N., Yoshida, H., Kunisada, T., Nishikawa, S., Nishikawa, S. I. (1996). Involvement of Platelet-Derived Growth Factor Receptor- α in Hair Canal Formation.; *Journal of investigative dermatology*;107(5), 770-777.