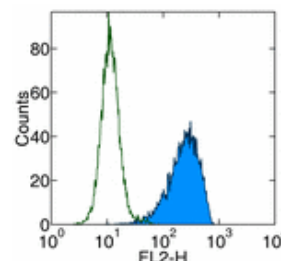


Product Information

Contents: Affinity Purified anti-mouse CD140a (PDGFR α)
Catalog Number: 14-1401
Sizes: 50 μ g, 100 μ g
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
Clone: APA5
Isotype: Rat IgG2a, κ



Surface staining of NIH/3T3 cells with anti-mouse CD140a (APA5) Biotin followed by SA-PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Available Formats of This Product

| Cat. No. | Format | Excite (nm) | Emit (nm) | Reported Applications |
|----------|---|-------------|-----------|-----------------------|
| 13-1401 | Biotin anti-mouse CD140a (PDGFR α) | N/A | N/A | FC |
| 14-1401 | Affinity Purified anti-mouse CD140a (PDGFR α) | N/A | N/A | FA FC IH/F WB |

Description

The APA5 monoclonal antibody reacts with the mouse CD140a molecule, the α chain of the platelet derived growth factor receptor (PDGF receptor). PDGFR α is a receptor tyrosine kinase that forms dimers on the surface upon ligand binding and phosphorylates substrates. Dimers of PDGFR consist of either homodimers of α/α , β/β , or heterodimers of α/β and serve as a substrate for its kinase activity. CD140a is expressed by embryonic tissues and mesenchymal-derived cells of the adult mouse tissues.

Usage

For research use only, not for diagnostic or therapeutic use. The APA5 antibody has been reported for use in flow cytometric analysis, immunoblotting (WB), and immunohistochemical staining of frozen tissue sections. It has also been reported in blocking of ligand binding. (Please use Functional Grade purified APA5 in functional assays.)

Applications Tested

The APA5 antibody has been tested by flow cytometric analysis of the NIH-3T3 cell line. This can be used at less than or equal to 1 μ g per million cells in a 100 μ l total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 14-4321 Affinity Purified Rat IgG2a Isotype Control
Cat. 11-4811 FITC Anti-Rat IgG
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

References

Takakura, N., H. Yoshida, et al. (1996). "Involvement of platelet-derived growth factor receptor-alpha in hair canal formation [comment]." *J Invest Dermatol* 107(5): 770-7.
Takakura, N., H. Yoshida, et al. (1997). "PDGFR alpha expression during mouse embryogenesis: immunolocalization analyzed by

whole-mount immunohistostaining using the monoclonal anti-mouse PDGFR alpha antibody APA5." J Histochem Cytochem 45(6): 883-93.

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