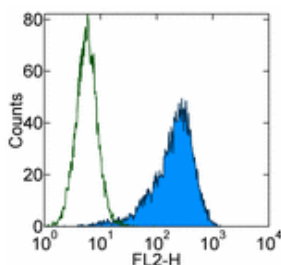


Anti-Mouse CD140a (PDGF Receptor α) Purified

Catalog Number: 14-1401

Also Known As: Platelet Derived Growth Factor Receptor, PDGFR α , PDGFR α

RUO: For Research Use Only



Staining of NIH/3T3 cell line with 0.5 μ g of Rat IgG2a κ Isotype Control Purified (cat. 14-4321) (open histogram) or 0.5 μ g of Anti-Mouse CD140a (PDGF Receptor α) Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD140a (PDGF Receptor α) Purified


REF Catalog Number: 14-1401

Clone: APA5

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2a, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

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.

Applications Reported

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 test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Mukouyama YS, Deneen B, Lukaszewicz A, Novitch BG, Wichterle H, Jessell TM, Anderson DJ. Olig2+ neuroepithelial motoneuron progenitors are not multipotent stem cells in vivo. *Proc Natl Acad Sci U S A*. 2006 Jan 31;103(5):1551-6 (APA5, IHC frozen, PubMed)

Miyawaki T, Uemura A, Dezawa M, Yu RT, Ide C, Nishikawa S, Honda Y, Tanabe Y, Tanabe T. Tlx, an orphan nuclear receptor, regulates cell numbers and astrocyte development in the developing retina. *J Neurosci*. 2004 Sept;24(37):8124-34 (APA5, IHC frozen, PubMed)

Takakura N, Yoshida H, Ogura Y, Kataoka H, Nishikawa S, Nishikawa S. PDGFR alpha expression during mouse embryogenesis: immunolocalization analyzed by whole-mount immunohistostaining using the monoclonal anti-mouse PDGFR alpha antibody APA5. *J Histochem Cytochem*. 1997 Jun;45(6):883-93. (APA5, IHC paraffin, PubMed)

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4321 Rat IgG2a K Isotype Control Purified

17-4317 Streptavidin APC

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com