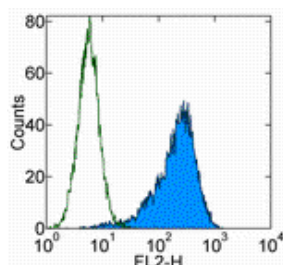


## Anti-Mouse CD140a (PDGF Receptor $\alpha$ ) Functional Grade Purified

**Catalog Number:** 16-1401

**Also Known As:** Platelet Derived Growth Factor Receptor, PDGFR  $\alpha$ , PDGFR $\alpha$

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



Staining of NIH/3T3 cell line with 0.5 ug of Rat IgG2a kappa Isotype Control Purified (cat. 14-4321) (open histogram) or 0.5 ug of Anti-Mouse CD140a (PDGF Receptor  $\alpha$ ) 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  $\alpha$ )  
Functional Grade Purified

**REF** **Catalog Number:** 16-1401

**Clone:** APA5

**Concentration:** 1 mg/mL

**Host/Isotype:** Rat IgG2a, kappa

**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

### Description

The APA5 monoclonal antibody reacts with the mouse CD140a molecule, the  $\alpha$  chain of the platelet derived growth factor receptor (PDGF receptor). PDGFR $\alpha$  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  $\alpha/\alpha$ ,  $\beta/\beta$ , or heterodimers of  $\alpha/\beta$  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

This APA5 antibody has been reported for use in flow cytometric analysis, immunoblotting (WB), and immunohistology staining of frozen tissue sections. It has also been reported for blocking ligand binding.

### Applications Tested

This 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  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ 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

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

---

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](http://www.eBioscience.com) • [info@eBioscience.com](mailto:info@eBioscience.com)