

# Product Data Sheet

## Purified anti-mouse CD140b

**Catalog # / Size:** 136001 / 25 µg  
 136002 / 100 µg

**Clone:** APB5

**Isotype:** Rat IgG2a, κ

**Immunogen:** Mouse PDGFR-β-hlgG1 recombinant fusion protein

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.

## Applications:

**Applications:** FC - *Quality tested*  
 WB - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported (for the relevant formats) applications include: Western blotting and blocking function<sup>2</sup>. The LEAF™ purified antibody is recommended for functional assays.

**Application References:** 1. Sano H, *et al.* 2001. *Circulation* 103:2955.  
 2. Sano H, *et al.* 2002. *Am. J. Pathol.* 161:135. (Block)

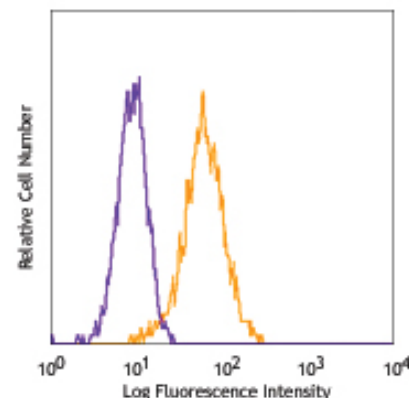
**Description:** Platelet-derived growth factor receptor-β (PDGFR-β), CD140b, is one of two receptors for platelet-derived growth factors (PDGFs) and binds to all isoforms of PDGFs. PDGFRβ is a receptor tyrosine kinase that forms homodimers or heterodimers on the surface upon ligand binding and phosphorylates substrates. PDGFRs consist of either homodimers of α/α, β/β, or heterodimers of α/β. PDGF receptors, α and β, are single glycoproteins with intracellular tyrosine kinase domain. Their ligand, PDGF, is a mitogen for connective tissue and glial cells. CD140b is expressed on embryonic tissues and mesenchymal-derived cells adult mice. PDGF plays a role in wound healing and acts as a chemoattractant for fibroblasts, smooth muscle cells, glial cells, monocytes, and neutrophils.

**Antigen References:** 1. Soriano P, *et al.* 1994. *Genes Dev.* 8:1888  
 2. Takakura N, *et al.* 1996. *J Invest Dermatol.* 107:770  
 3. Yarden Y, *et al.* 1986. *Nature* 323:226

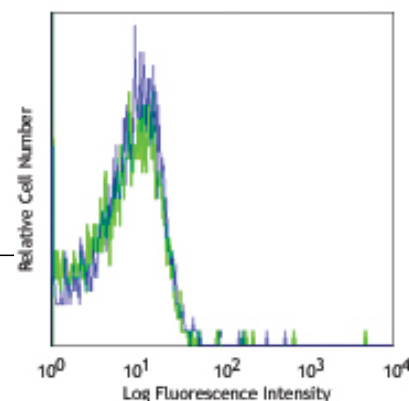
**Related Products:** **Product**  
 Purified Rat IgG2a, κ Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**  
 RTK2758

**Application**  
 FC, ICC, IF, IHC, IP, WB  
 FC, ICC, ICFC  
 FC, ICFC



Mouse fibroblast NIH/3T3 cells stained with APB5 PE



C57BL/6 splenocytes stained with APB5 PE



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