

# CD140b (PDGFRB) Monoclonal Antibody (APB5), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APB5
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2848306

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	11 Publications

## Product Specific Information

**Description:** The APB5 monoclonal antibody reacts with the mouse CD140b molecule, the beta chain of the platelet derived growth factor receptor (PDGF receptor). PDGFRb 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. CD140b is expressed by embryonic tissues and mesenchymal-derived cells of the adult mouse tissues. The PDGFR beta chain is reported to play a significant role in formation of fibrous atherosclerotic lesions.

**Applications Reported:** This APB5 antibody has been reported for use in flow cytometric analysis.

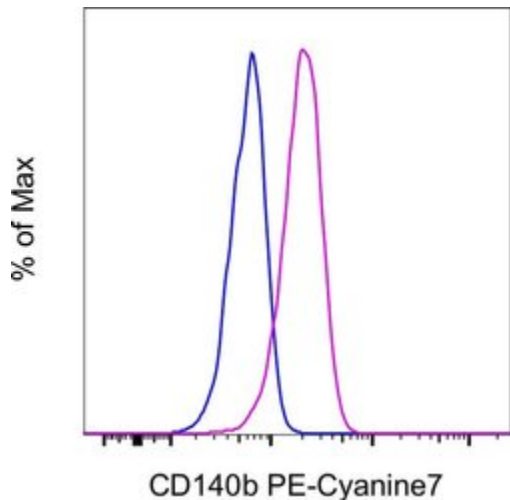
**Applications Tested:** This APB5 antibody has been tested by flow cytometric analysis of NIH/3T3 cells. This may be used at less than or equal to 1.0 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

## Product Images For CD140b (PDGFRB) Monoclonal Antibody (APB5), PE-Cyanine7, eBioscience™



### CD140b (PDGFRB) Antibody (25-1402-82) in Flow

NIH/3T3 cells were stained with 0.5 µg of Rat IgG2a kappa Isotype Control, PE-Cyanine7 (Product # 25-4321-82) (blue histogram) or 0.5 µg of CD140b (PDGFRB) Monoclonal Antibody, PE-Cyanine7 (purple histogram). Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 450 (Product # 65-0863-18).

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## 11 References

### Flow Cytometry (11)

The Journal of biological chemistry

#### Dual lineage tracing identifies intermediate mesenchymal stage for endocardial contribution to fibroblasts, coronary mural cells, and adipocytes.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 25-1402-82) in Flow Cytometry"

Authors: Huang X,Feng T,Jiang Z,Meng J,Kou S,Lu Z,Chen W,Lin CP,Zhou B,Zhang H

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

Molecular metabolism

#### Neonatal pancreatic pericytes support -cell proliferation.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 25-1402-82) in Flow Cytometry"

Authors: Epshtein A,Rachi E,Sakhneny L,Mizrachi S,Baer D,Landsman L

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

[View more Flow references on thermofisher.com](#)

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