

CD140b (PDGFRB) Monoclonal Antibody (APB5), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APB5
Conjugate	APC
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1548743

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	18 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.

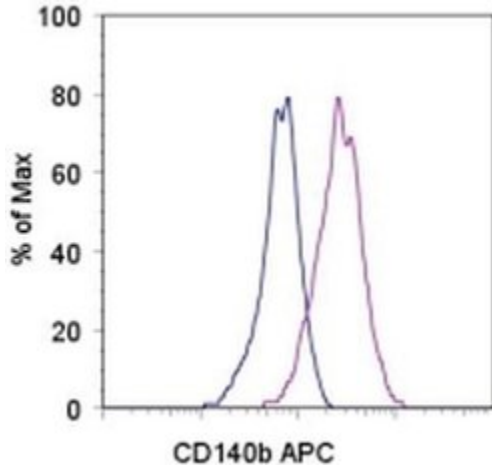
Applications Reported: This APB5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This APB5 antibody has been tested by flow cytometric analysis of NIH 3T3 cell line. This can be used at less than or equal to 0.5 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD140b (PDGFRB) Monoclonal Antibody (APB5), APC, eBioscience™



CD140b (PDGFRB) Antibody (17-1402-82) in Flow

Staining of the NIH/3T3 cell line with 0.25 µg of Rat IgG2a kappa Isotype Control APC (Product # 17-4321-81) (blue histogram) or 0.25 µg of Anti-Mouse CD140b (PDGF Receptor b) APC (purple histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](#)

18 References

Flow Cytometry (18)

Nature communications

Direct contribution of skeletal muscle mesenchymal progenitors to bone repair.

"17-1402 was used in Flow cytometry/Cell sorting to elucidate the central role of skeletal muscle in bone regeneration and provide evidence that skeletal muscle can be targeted to prevent persistent callus fibrosis and improve bone healing after musculoskeletal trauma."

Authors: Julien A,Kanagalingam A,Martínez-Sarrà E,Megret J,Luka M,Ménager M,Relaix F,Colnot C

Species
Mouse

Dilution
Not Cited

Year
2021

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 # 17-1402-82) 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

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

More applications with references on thermofisher.com

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