CD140b (PDGFRB) Monoclonal Antibody (APB5), APC-eFluor 780, eBioscience™

Product Details

Size	100 μg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APB5
Conjugate	APC-eFluor® 780
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_2866436

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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633-647 nm). Please make sure that your instrument is capable of detecting this fluorochrome.
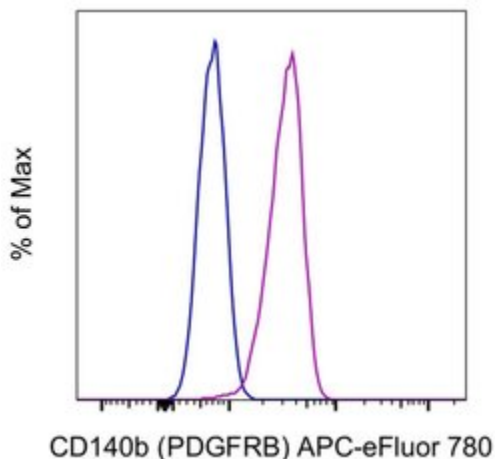
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 μL of cell sample + 100 μL of IC Fixation Buffer)

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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: 633-647 nm; Emission: 780 nm; Laser: Red Laser

Product Images For CD140b (PDGFRB) Monoclonal Antibody (APB5), APC-eFluor 780, eBioscience™

CD140b (PDGFRB) Antibody (47-1402-82) in Flow
NIH/3T3 cells were stained with 0.5 µg of Rat IgG2a kappa Isotype Control, APC-eFluor 780 (Product # 47-4321-82) (blue histogram) or 0.5 µg of CD140b (PDGFRB) Monoclonal Antibody, APC-eFluor 780 (purple histogram). Viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 450 (Product # 65-0863-18).

View more figures on thermofisher.com

⚑ 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 # 47-1402-82) 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 # 47-1402-82) in Flow Cytometry"
Authors: Epshtein A,Rachi E,Sakhneny L,Mizrachi S,Baer D,Landsman L

Species
Not Applicable

Dilution
Not Cited

Year
2017

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