

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

Product Details	
Size	50 μg
Species Reactivity	Mouse
Published Species	Fish, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	APB5
Conjugate	PE
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_529484

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	1 µg/test	29 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.

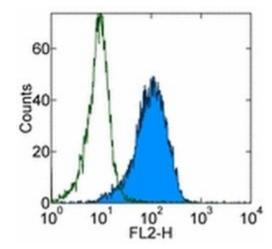
Applications Reported: This APB5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This APB5 antibody has been tested by flow cytometric analysis of NIH/3T3 cells. This can be used at less than or equal to 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD140b (PDGFRB) Antibody (12-1402-81) in Flow

Staining of NIH/3T3 cell line with 0.5 µg of Rat IgG2a kappa Isotype Control PE (Product # 12-4321-80) (open histogram) or 0.5 µg of Anti-Mouse CD140b (PDGF Receptor b) PE (filled histogram). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 31 References

Immunocytochemistry (2)

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Circu	lation	research	

Cardiac Fibro-Adipocyte Progenitors Express Desmosome Proteins and Preferentially Differentiate to Adipocytes Upon Deletion of the Desmoplakin Gene.

"12140281 was used in flow cytometry and immunocytochemistry to discuss the cellular origins of fibroadipocytes in arrhythmogenic cardiomyopathy"

Authors: Lombardi R, Chen SN, Ruggiero A, Gurha P, Czernuszewicz GZ, Willerson JT, Marian AJ

Species Mouse

Dilution 5 mg/ml

Year 2016

Reproductive toxicology (Elmsford, N.Y.)

Imatinib has deleterious effects on differentiating spermatogonia while sparing spermatogonial stem cell self renewal.

"12-1402 was used in Immunohistochemistry to support the possibility of utilizing germline stem cell cultures for preclinical drug tests."

Authors: Heim C, Minniear K, Dann CT

Species Mouse

Dilution

Not Cited

Year 2011

Flow Cytometry (29)

Oncoimmunology

Mammary tumor-derived CCL2 enhances pro-metastatic systemic inflammation through upregulation of IL1 in tumor-associated macrophages.

"12-1402 was used in Flow cytometry/Cell sorting to demonstrate mammary tumor-derived CCL2 can facilitate the breast cancer-induced pro-metastatic systemic inflammatory gamma delta T cell-IL17–neutrophil axis."

Authors: Kersten K,Coffelt SB,Hoogstraat M,Verstegen NJM,Vrijland K,Ciampricotti M,Doornebal CW,Hau CS, Wellenstein MD,Salvagno C,Doshi P,Lips EH,Wessels LFA,de Visser KE

Species Mouse

Dilution Not Cited

Year 2022

FEBS open bio

Cardiac pericytes function as key vasoactive cells to regulate homeostasis and disease.

"12-1402 was used in Flow cytometry/Cell sorting to characterize cardiac PCs under in vitro disease conditions and supports the hypothesis that cardiac PCs are key vasoactive cells that can regulate blood flow in the heart."

Authors: Lee LL, Khakoo AY, Chintalgattu V

Species Mouse

Dilution 1:100

Year 2021

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

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