

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APB5
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466609

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	36 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	12 Publications
Flow Cytometry (Flow)	1 µg/test	19 Publications
Neutralization (Neu)	-	1 Publication

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.

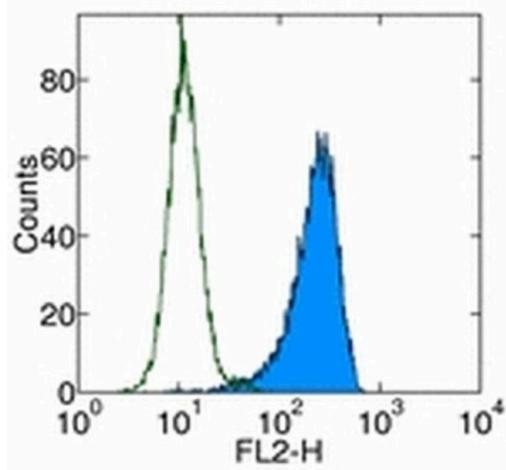
Applications Reported: The APB5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The APB5 antibody has been tested by flow cytometric analysis of NIH/3T3 cells. This can be used at less than or equal to 1 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.

Filtration: 0.2 μm post-manufacturing filtered.

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



CD140b (PDGFRB) Antibody (13-1402-82) in Flow

Staining of NIH/3T3 cell line with 0.5 μg of Anti-Mouse CD140b (PDGF Receptor b) Biotin followed by Streptavidin PE (Product # 12-4317-87). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

71 References

Western Blot (2)

The Journal of biological chemistry

Fibroblast Growth Factor 9 Imparts Hierarchy and Vasoreactivity to the Microcirculation of Renal Tumors and Suppresses Metastases.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Neutralization"

Authors: Yin H,Frontini MJ,Arpino JM,Nong Z,O'Neil C,Xu Y,Balint B,Ward AD,Chakrabarti S,Ellis CG,Gros R,Pickering JG

Year
2015

Species
Mouse

Genes & development

Ephrin-B2 controls PDGFR internalization and signaling.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunofluorescence"

Authors: Nakayama A,Nakayama M,Turner CJ,Höing S,Lepore JJ,Adams RH

Year
2013

Immunohistochemistry (36)

Nature communications

Direct contribution of skeletal muscle mesenchymal progenitors to bone repair.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunohistochemistry"

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

Year
2021

Frontiers in behavioral neuroscience

Enhancement of Drug Seeking Following Drug Taking in a Sexual Context Requires Anterior Cingulate Cortex Activity in Male Rats.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunohistochemistry"

Authors: Kuiper LB,Lucas KA,Mai V,Coolen LM

Year
2020

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More applications with references on thermofisher.com

IHC (F) (1)

ICC/IF (12)

Flow (19)

Neu (1)

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