

CD140b (PDGFRB) Monoclonal Antibody (APB5), Alexa Fluor 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APB5
Conjugate	Alexa Fluor® 488
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_2815208

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	1.0 µg/test	1 Publication

Product Specific Information

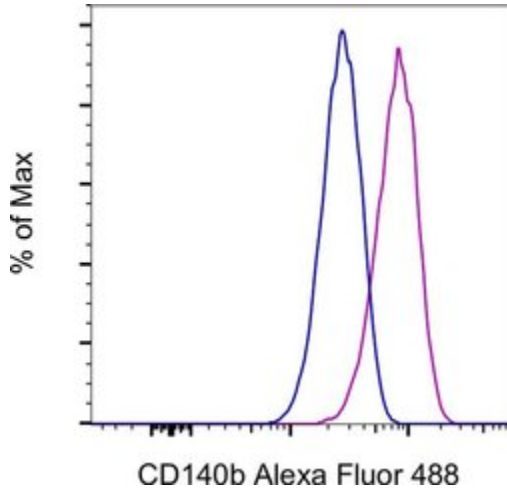
Description: The APB5 monoclonal antibody reacts with the mouse CD140b molecule, the beta chain of the platelet derived growth factor receptor (PDGF receptor). PDGFRb is a receptor tyrosine kinase that forms dimers on the surface upon ligand binding and phosphorylates substrates. Dimers of PDGFR consist 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: This 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 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; **Emission:** 519 nm; **Laser:** Blue Laser

Product Images For CD140b (PDGFRB) Monoclonal Antibody (APB5), Alexa Fluor 488, eBioscience™



CD140b (PDGFRB) Antibody (53-1402-82) in Flow

NIH/3T3 cell line were stained with 0.5 µg of Rat IgG2a kappa Isotype Control, Alexa Fluor 488 (Product # 53-4321-80) (blue histogram) or 0.5 µg of CD140b Monoclonal Antibody, Alexa Fluor 488 (purple histogram). Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 780 (Product # 65-0865-18).

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

6 References

Immunohistochemistry (3)

Fluids and barriers of the CNS

Angiomodulin (IGFBP7) is a cerebral specific angiocrine factor, but is probably not a blood-brain barrier inducer.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 53-1402-82) in Immunocytochemistry"

Authors: Bar O, Gelb S, Atamny K, Anzi S, Ben-Zvi A

Species

Not Applicable

Dilution

Not Cited

Year

2020

Physiological reports

TGF1 orchestrates renal fibrosis following Escherichia coli pyelonephritis.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 53-1402-82) in Immunohistochemistry"

Authors: Hreha TN, Collins CA, Daugherty AL, Twentyman J, Paluri N, Hunstad DA

Species

Not Applicable

Dilution

Not Cited

Year

2020

[View more IHC references on thermofisher.com](https://thermofisher.com)

Immunocytochemistry (2)

Fluids and barriers of the CNS

Angiomodulin (IGFBP7) is a cerebral specific angiocrine factor, but is probably not a blood-brain barrier inducer.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 53-1402-82) in Immunocytochemistry"

Authors: Bar O, Gelb S, Atamny K, Anzi S, Ben-Zvi A

Species

Not Applicable

Dilution

Not Cited

Year

2020

Nature

Age-dependent modulation of vascular niches for haematopoietic stem cells.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 53-1402-82) in Immunocytochemistry"

Authors: Kusumbe AP,Ramasamy SK,Itkin T,Mäe MA,Langen UH,Betsholtz C,Lapidot T,Adams RH

Species
Not Applicable

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

Flow (1)

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