

CD140a (PDGFRA) Monoclonal Antibody (APA5), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APA5
Conjugate	FITC
Form	Liquid
Concentration	0.5 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_2572476

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	19 Publications
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	15 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Western Blot (WB)	-	2 Publications

Product Specific Information

Description: The APA5 monoclonal antibody reacts with the mouse CD140a molecule, the alpha chain of the platelet derived growth factor receptor (PDGF receptor). PDGFRA 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. CD140a is expressed by embryonic tissues and mesenchymal-derived cells of the adult mouse tissues.

Applications Reported: This APA5 antibody has been reported for use in flow cytometric analysis.

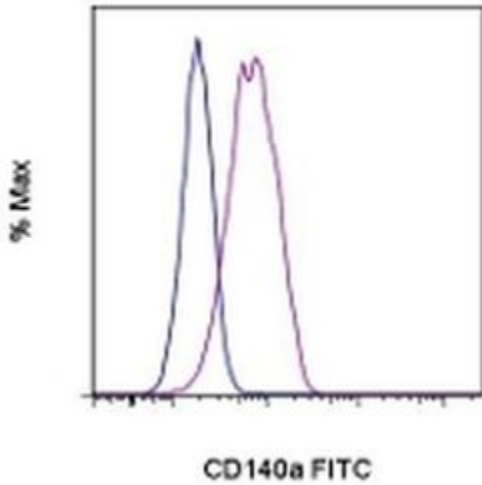
Applications Tested: This APA5 antibody has been tested by flow cytometric analysis of NIH/3T3 cells. This can be used at less

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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD140a (PDGFRA) Monoclonal Antibody (APA5), FITC, eBioscience™



CD140a (PDGFRA) Antibody (11-1401-82) in Flow

Staining of NIH/3T3 cells with 1 µg of Rat IgG2a K Isotype Control FITC (Product # 11-4321-42) (blue histogram) or 1 µg of Anti-Mouse CD140a (PDGF Receptor a) FITC (purple histogram). Total viable cells were used for analysis.

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

Flow Cytometry (19)

eLife

***Pdgfra* marks a cellular lineage with distinct contributions to myofibroblasts in lung maturation and injury response.**

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 11-1401-82) in Flow Cytometry"

Authors: Li R, Bernau K, Sandbo N, Gu J, Preissl S, Sun X

Species
Not Applicable

Dilution
Not Cited

Year
2018

Nature medicine

Adrenergic nerve degeneration in bone marrow drives aging of the hematopoietic stem cell niche.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 11-1401-82) in Flow Cytometry"

Authors: Maryanovich M, Zahalka AH, Pierce H, Pinho S, Nakahara F, Asada N, Wei Q, Wang X, Ciero P, Xu J, Leftin A, Frenette PS

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

Immunofluorescence (15)

Nature

Genome editing reveals a role for OCT4 in human embryogenesis.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 11-1401-82) in Immunofluorescence"

Authors: Fogarty NME, McCarthy A, Snijders KE, Powell BE, Kubikova N, Blakeley P, Lea R, Elder K, Wamaitha SE, Kim D, Maciulyte V, Kleinjung J, Kim JS, Wells D, Vallier L, Bertero A, Turner JMA, Niakan KK

Species
Not Applicable

Dilution
Not Cited

Year
2017

The Journal of clinical investigation

Preexisting endothelial cells mediate cardiac neovascularization after injury.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 11-1401-82) in Immunofluorescence"

Authors: He L, Huang X, Kanisicak O, Li Y, Wang Y, Li Y, Pu W, Liu Q, Zhang H, Tian X, Zhao H, Liu X, Zhang S, Nie Y, Hu S, Miao X, Wang QD, Wang F, Chen T, Xu Q, Lui KO, Molkentin JD, Zhou B

Species
Not Applicable

Dilution
Not Cited

Year
2017

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

More applications with references on thermofisher.com

IHC (6) WB (2) ICC (1) IHC (F) (2) IHC (P) (1)

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