

CD140a (PDGFRA) Monoclonal Antibody (APA5), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APA5
Conjugate	PE-Cyanine7
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_2573400

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	30 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 0.125 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.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

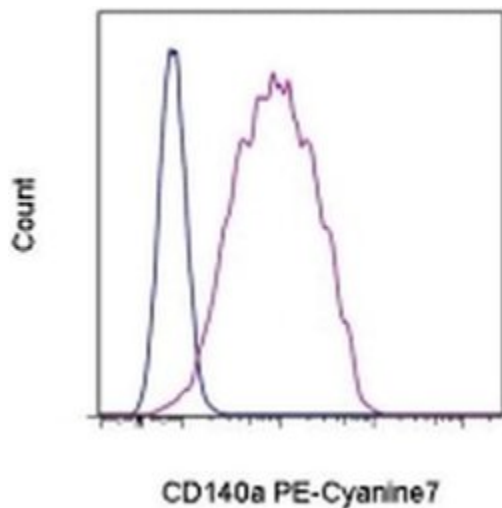
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step

Fix/Lyse Solution (cat. 00-5333) 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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD140a (PDGFRA) Monoclonal Antibody (APA5), PE-Cyanine7, eBioscience™



CD140a (PDGFRA) Antibody (25-1401-82) in Flow

Staining of NIH/3T3 cells with 0.06 µg of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (blue histogram) or 0.06 µg of Anti-Mouse CD140a (PDGF Receptor a) PE-Cyanine7 (purple histogram). Total viable cells were used for analysis.

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

Immunohistochemistry (Frozen) (2)

Proceedings of the National Academy of Sciences of the United States of America

Olig2+ neuroepithelial motoneuron progenitors are not multipotent stem cells in vivo.

Authors: Mukoyama YS, Deneen B, Lukaszewicz A, Novitch BG, Wichterle H, Jessell TM, Anderson DJ

Species
Not Applicable

Dilution
Not Cited

Year
2006

The Journal of neuroscience : the official journal of the Society for Neuroscience

Tlx, an orphan nuclear receptor, regulates cell numbers and astrocyte development in the developing retina.

Authors: Miyawaki T, Uemura A, Dezawa M, Yu RT, Ide C, Nishikawa S, Honda Y, Tanabe Y, Tanabe T

Species
Not Applicable

Dilution
Not Cited

Year
2004

Flow Cytometry (30)

JCI insight

Cardiac fibroblast proliferation rates and collagen expression mature early and are unaltered with advancing age.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 25-1401-82) in Flow Cytometry"

Authors: Wu R, Ma F, Tosevska A, Farrell C, Pellegrini M, Deb A

Species
Not Applicable

Dilution
Not Cited

Year
2020

JCI insight

Loss of Fas signaling in fibroblasts impairs homeostatic fibrosis resolution and promotes persistent pulmonary fibrosis.

"25-1401 was used in Flow cytometry/Cell sorting to test the hypothesis that the development of resistance to Fas-induced apoptosis by lung fibroblasts and myofibroblasts contributes to their accumulation in the distal lung tissues of IPF patients."

Authors: Redente EF, Chakraborty S, Sajuthi S, Black BP, Edelman BL, Seibold MA, Riches DW

Species
Mouse
Not Applicable

Dilution
1:200
Not Cited

Year
2020

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

More applications with references on thermofisher.com

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