

CD140a (PDGFRA) Monoclonal Antibody (APA5), Super Bright™ 600, 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), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APA5
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2734880

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.5 µg/Test	24 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 may be used at less than or equal to 0.5 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.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

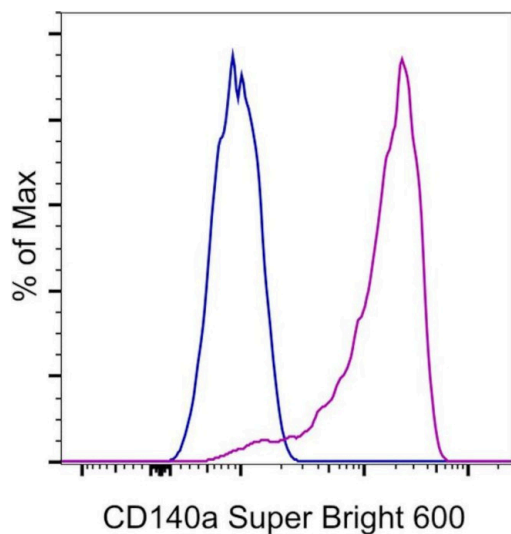
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD140a (PDGFRA) Monoclonal Antibody (APA5), Super Bright™ 600, eBioscience™



CD140a (PDGFRA) Antibody (63-1401-82) in Flow

NIH/3T3 cells were stained with 0.25 μ g of Rat IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4321-82) or 0.25 μ g of CD140a (PDGFRA) Monoclonal Antibody, Super Bright 600. Viable cells were used for analysis.

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

34 References

Immunohistochemistry (6)

Nature neuroscience

Placental endocrine function shapes cerebellar development and social behavior.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 63-1401-82) in Immunohistochemistry"

Authors: Vacher CM, Lacaille H, O'Reilly JJ, Salzbank J, Bakalar D, Sebaoui S, Liere P, Clarkson-Paredes C, Sasaki T, Sathyanesan A, Kratimenos P, Ellegood J, Lerch JP, Imamura Y, Popratiloff A, Hashimoto-Torii K, Gallo V, Schumacher M, Penn AA

Year
2021

Journal of smooth muscle research = Nihon Heikatsukin Gakkai kikanshi

Interstitial cells of Cajal in W^{sh}/W^{sh} c-kit mutant mice.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 63-1401-82) in Immunohistochemistry"

Authors: Iino S, Horiguchi S, Horiguchi K, Hashimoto T

Year
2021

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

Immunocytochemistry (4)

Journal of extracellular vesicles

Extracellular vesicles synchronize cellular phenotypes of differentiating cells.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 63-1401-82) in Flow Cytometry"

Authors: Minakawa T, Matoba T, Ishidate F, Fujiwara TK, Takehana S, Tabata Y, Yamashita JK

Year
2021

The Journal of pathology

A smooth muscle-derived, Braf-driven mouse model of gastrointestinal stromal tumor (GIST): evidence for an alternative GIST cell-of-origin.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 63-1401-82) in Immunocytochemistry"

Authors: Kondo J, Huh WJ, Franklin JL, Heinrich MC, Rubin BP, Coffey RJ

Year
2020

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More applications with references on thermofisher.com

Flow (24)

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