

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

| Product Details | |
|-----------------------------|--|
| Size | 100 µg |
| Species Reactivity | 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 | 23 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.

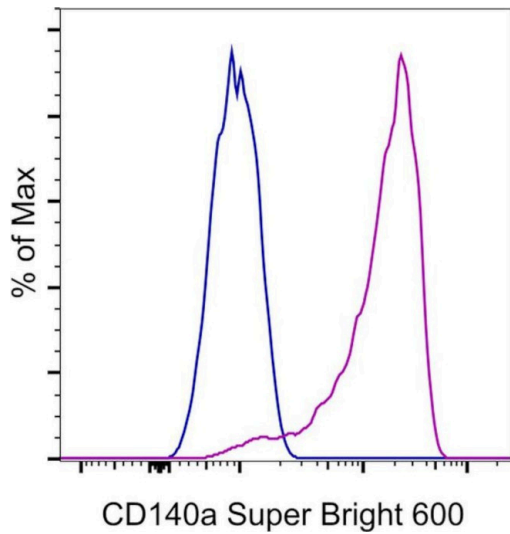
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL 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 µg of Rat IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4321-82) or 0.25 µg of CD140a (PDGFRA) Monoclonal Antibody, Super Bright 600. Viable cells were used for analysis.

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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 Immunocytochemistry"

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 (23)

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