

# CD140a (PDGFRA) Monoclonal Antibody (APA5), Super Bright™ 436, 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™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APA5
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 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_2662719

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	1.0 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 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

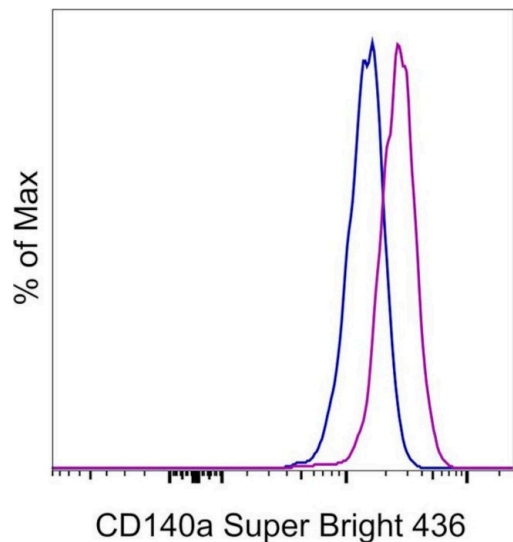
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 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™ 436, eBioscience™



#### CD140a (PDGFRA) Antibody (62-1401-82) in Flow

Staining of NIH/3T3 cells with 0.5 µg of Rat IgG2a K Isotype Control Super Bright 436 (Product # 62-4321-82) (blue histogram) or 0.5 µg of Anti-Mouse CD140a (PDGF Receptor a) Super Bright 436 (purple histogram). Total 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 # 62-1401-82) 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 # 62-1401-82) in Immunohistochemistry"

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

Year  
2021

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

### Immunohistochemistry (Frozen) (1)

The journal of cardiovascular aging

#### Deletion of the *Lmna* gene in fibroblasts causes senescence-associated dilated cardiomyopathy by activating the double-stranded DNA damage response and induction of senescence-associated secretory phenotype.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 62-1401-82) in Immunohistochemistry (Frozen)"

Authors: Rouhi L, Auguste G, Zhou Q, Lombardi R, Olcum M, Pourebrahim K, Cheedipudi SM, Asghar S, Hong K, Robertson MJ, Coarfa C, Gurha P, Marian AJ

Year  
2022

### Immunocytochemistry (4)

Journal of extracellular vesicles

#### Extracellular vesicles synchronize cellular phenotypes of differentiating cells.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 62-1401-82) in Flow Cytometry"

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

Year  
2021

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

### More applications with references on thermofisher.com

## Flow (23)

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