

# 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
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)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	1.0 µg/test	5 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.

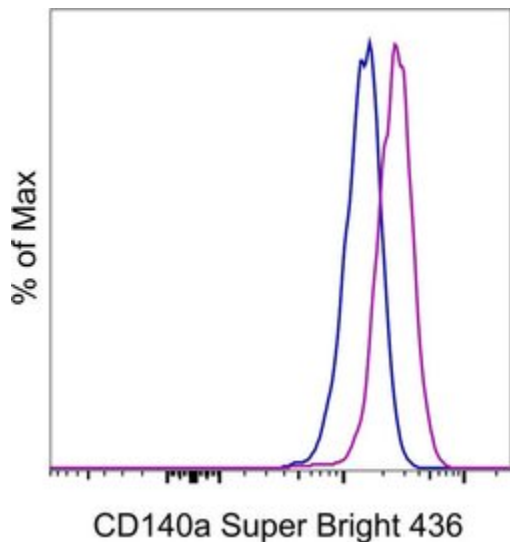
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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  $\mu$ g of Rat IgG2a K Isotype Control Super Bright 436 (Product # 62-4321-82) (blue histogram) or 0.5  $\mu$ g 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)

## 8 References

### Immunohistochemistry (1)

#### Scientific reports

#### **Dlx5-augmentation in neural crest cells reveals early development and differentiation potential of mouse apical head mesenchyme.**

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

Authors: Vu TH,Takechi M,Shimizu M,Kitazawa T,Higashiyama H,Iwase A,Kurihara H,Iseki S

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

### Immunocytochemistry (2)

#### 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 # 62-1401-82) in Immunocytochemistry"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

#### Developmental cell

#### **Epithelial Vegfa Specifies a Distinct Endothelial Population in the Mouse Lung.**

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

Authors: Vila Ellis L,Cain MP,Hutchison V,Flodby P,Crandall ED,Borok Z,Zhou B,Ostrin EJ,Wythe JD,Chen J

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

### Flow Cytometry (5)

#### 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 # 62-1401-82) in Flow Cytometry"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

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

### More applications with references on thermofisher.com

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