

# CD140b (PDGFRB) Monoclonal Antibody (APB5), Biotin, eBioscience™

| Product Details             |   |
|-----------------------------|---|
| Size                        | 100 µg  |
| Species Reactivity          | Mouse   |
| Published Species           | Fish, Mouse, Human  |
| Host/Isotype                | Rat / IgG2a, kappa  |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | APB5  |
| Conjugate                   | Biotin  |
| Form                        | Liquid  |
| Concentration               | 0.5 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_466609   |

| Applications                 | Tested Dilution | Publications    |
|------------------------------|-----------------|-----------------|
| Western Blot (WB)            | -               | 2 Publications  |
| Immunohistochemistry (IHC)   | -               | 34 Publications |
| Immunocytochemistry (ICC/IF) | -               | 8 Publications  |
| Flow Cytometry (Flow)        | 1 µg/test       | 13 Publications |

## Product Specific Information

**Description:** The APB5 monoclonal antibody reacts with the mouse CD140b molecule, the beta chain of the platelet derived growth factor receptor (PDGF receptor). PDGFRb 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. CD140b is expressed by embryonic tissues and mesenchymal-derived cells of the adult mouse tissues. The PDGFR beta chain is reported to play a significant role in formation of fibrous atherosclerotic lesions.

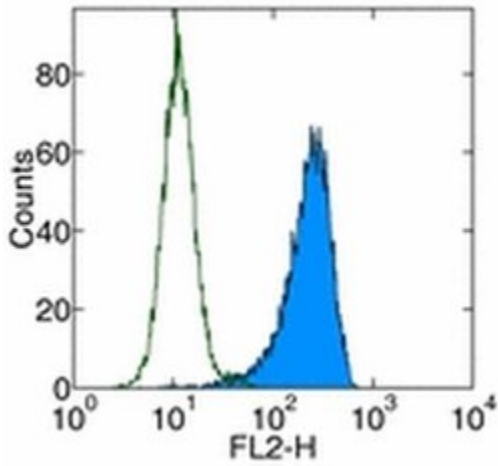
**Applications Reported:** The APB5 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The APB5 antibody has been tested by flow cytometric analysis of NIH/3T3 cells. This can be used at less than or equal to 1 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>4</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.

Filtration: 0.2  $\mu\text{m}$  post-manufacturing filtered.

### Product Images For CD140b (PDGFRB) Monoclonal Antibody (APB5), Biotin, eBioscience™



#### CD140b (PDGFRB) Antibody (13-1402-82) in Flow

Staining of NIH/3T3 cell line with 0.5  $\mu\text{g}$  of Anti-Mouse CD140b (PDGF Receptor b) Biotin followed by Streptavidin PE (Product # 12-4317-87). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

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## Western Blot (2)

The Journal of biological chemistry

### Fibroblast Growth Factor 9 Imparts Hierarchy and Vasoreactivity to the Microcirculation of Renal Tumors and Suppresses Metastases.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunofluorescence"

Authors: Yin H,Frontini MJ,Arpino JM,Nong Z,O'Neil C,Xu Y,Balint B,Ward AD,Chakrabarti S,Ellis CG,Gros R,Pickering JG

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2015

Genes & development

### Ephrin-B2 controls PDGFR internalization and signaling.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunofluorescence"

Authors: Nakayama A,Nakayama M,Turner CJ,Höing S,Lepore JJ,Adams RH

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2013

## Immunohistochemistry (34)

Frontiers in behavioral neuroscience

### Enhancement of Drug Seeking Following Drug Taking in a Sexual Context Requires Anterior Cingulate Cortex Activity in Male Rats.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunohistochemistry"

Authors: Kuiper LB,Lucas KA,Mai V,Coolen LM

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

Fluids and barriers of the CNS

### Angiomodulin (IGFBP7) is a cerebral specific angiocrine factor, but is probably not a blood-brain barrier inducer.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunocytochemistry"

Authors: Bar O,Gelb S,Atamny K,Anzi S,Ben-Zvi A

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

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## More applications with references on thermofisher.com

ICC/IF (8)   Flow (13)

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