

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 |
| 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) | - | 36 Publications |
| Immunohistochemistry (Frozen) (IHC (F)) | - | 1 Publication |
| Immunocytochemistry (ICC/IF) | - | 12 Publications |
| Flow Cytometry (Flow) | 1 µg/test | 19 Publications |
| Neutralization (Neu) | - | 1 Publication |

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.

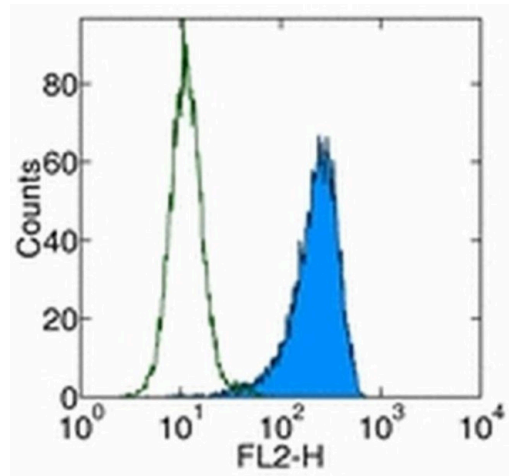
Applications Reported: The APB5 antibody has been reported for use in flow cytometric analysis.

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 10⁵ to 10⁸ cells/test. It is recommended that the

antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm 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 µg 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)

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| <p>The Journal of biological chemistry</p> <p>Fibroblast Growth Factor 9 Imparts Hierarchy and Vasoreactivity to the Microcirculation of Renal Tumors and Suppresses Metastases.</p> <p>"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Neutralization"</p> <p>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</p> | <p>Year 2015</p> <p>Species Mouse</p> |
| <p>Genes & development</p> <p>Ephrin-B2 controls PDGFR internalization and signaling.</p> <p>"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunofluorescence"</p> <p>Authors: Nakayama A,Nakayama M,Turner CJ,Höing S,Lepore JJ,Adams RH</p> | <p>Year 2013</p> |

Immunohistochemistry (36)

| | |
|---|----------------------|
| <p>Nature communications</p> <p>Direct contribution of skeletal muscle mesenchymal progenitors to bone repair.</p> <p>"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunohistochemistry"</p> <p>Authors: Julien A,Kanagalingam A,Martínez-Sarrà E,Megret J,Luka M,Ménager M,Relaix F,Colnot C</p> | <p>Year 2021</p> |
| <p>Frontiers in behavioral neuroscience</p> <p>Enhancement of Drug Seeking Following Drug Taking in a Sexual Context Requires Anterior Cingulate Cortex Activity in Male Rats.</p> <p>"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 13-1402-82) in Immunohistochemistry"</p> <p>Authors: Kuiper LB,Lucas KA,Mai V,Coolen LM</p> | <p>Year 2020</p> |

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- IHC (F) (1)
- ICC/IF (12)
- Flow (19)
- Neu (1)

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