

CD140b (PDGFRB) Monoclonal Antibody (APB5), Functional Grade, 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), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APB5
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469070

Applications	Tested Dilution	Publications
Western Blot (WB)	-	3 Publications
Immunohistochemistry (IHC)	-	33 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	8 Publications
Flow Cytometry (Flow)	1 μg/test	11 Publications
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	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. It has also been reported in blocking of ligand binding.

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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

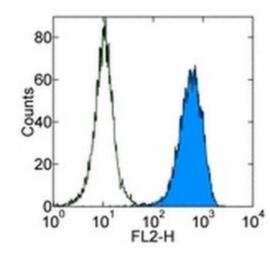
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

Product Images For CD140b (PDGFRB) Monoclonal Antibody (APB5), Functional Grade, eBioscience™



CD140b (PDGFRB) Antibody (16-1402-82) in Flow

Staining of NIH-3T3 cell line with 0.5 µg of Rat IgG2a kappa Isotype Control Functional Grade Purified (Product # 16-4321-82) (open histogram) or 0.5 µg of Anti-Mouse CD140b (PDGF Receptor b) Functional Grade Purified (filled histogram) followed by Anti-Rat IgG Biotin (Product # 13-4813-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 60 References

Western Blot (3)

Scientific reports

The role of pericytic laminin in blood brain barrier integrity maintenance.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 16-1402-82) in Immunofluorescence" Authors: Gautam J,Zhang X,Yao Y

Species Not Applicable

Dilution Not Cited

Year 2016

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 # 16-1402-82) 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

DilutionNot Cited

Year 2015

View more WB references on thermofisher.com

Immunohistochemistry (33)

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 # 16-1402-82) in Immunocytochemistry" Authors: Bar O,Gelb S,Atamny K,Anzi S,Ben-Zvi A

Species

Not Applicable

Dilution Not Cited

Year 2020

Physiological reports

TGF1 orchestrates renal fibrosis following Escherichia coli pyelonephritis.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 16-1402-82) in Immunohistochemistry"

Authors: Hreha TN,Collins CA,Daugherty AL,Twentyman J,Paluri N,Hunstad DA

Species
Not Applicable

Dilution Not Cited

Year 2020

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

IHC (P) (1) IHC (PFA) (1) IHC (F) (1) ICC/IF (8) Flow (11) Neu (1) FN (1)

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