



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

Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Туре	Antibody
Clone	APB5
Conjugate	Unconjugated
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
RRID	AB_467493

Applications	Tested Dilution	Publications
Western Blot (WB)	-	5 Publications
Immunohistochemistry (IHC)	-	76 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	13 Publications
Immunocytochemistry (ICC/IF)	-	27 Publications
Flow Cytometry (Flow)	1 μg/test	24 Publications
ELISA (ELISA)	-	1 Publication
Neutralization (Neu)	-	1 Publication
Miscellaneous PubMed (Misc)	-	3 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 and immunohistochemical staining of frozen tissue sections. It has also been reported in blocking of ligand binding. (Please use Functional Grade purified APB5, Product # 16-1402, in functional assays.).

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

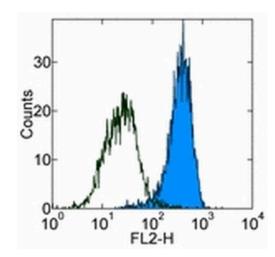
100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

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

Filtration: 0.2 µm post-manufacturing filtered.

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



CD140b (PDGFRB) Antibody (14-1402-82) in Flow

Staining of NIH/3T3 cell line with 0.5 µg of Rat IgG2a kappa Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.5 µg of Anti-Mouse CD140b (PDGF Receptor b) 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

□ 151 References

Western Blot (5)

Science advances

Non-neuronal expression of SARS-CoV-2 entry genes in the olfactory system suggests mechanisms underlying COVID-19-associated anosmia.

"14-1402 was used in Western Blotting to identify cell types in the olfactory epithelium and olfactory bulb that express SARS-CoV-2 cell entry molecules."

Authors: Brann DH,Tsukahara T,Weinreb C,Lipovsek M,Van den Berge K,Gong B,Chance R,Macaulay IC,Chou HJ, Fletcher RB,Das D,Street K,de Bezieux HR,Choi YG,Risso D,Dudoit S,Purdom E,Mill J,Hachem RA,Matsunami H, Logan DW,Goldstein BJ,Grubb MS,Ngai J,Datta SR

Year 2020

Species Mouse

Dilution 1:100

Nature communications

Laminin regulates PDGFR(+) cell stemness and muscle development.

"Published figure using CD140b (PDGFRB) monoclonal antibody (Product # 14-1402-82) in Immunofluorescence" Authors: Yao Y,Norris EH,Mason CE,Strickland S

Year 2016

Species Mouse

View more WB references on thermofisher.com

Immunohistochemistry (76)

Life (Basel, Switzerland)

Essential Roles of *Exocyst Complex Component 3-like 2* on Cardiovascular Development in Mice.

"14-1402-82 was used in Immunohistochemistry to reveal that Exoc3l2 is essential for cardiovascular and brain development in mice."

Authors: Watanabe C,Shibuya H,Ichiyama Y,Okamura E,Tsukiyama-Fujii S,Tsukiyama T,Matsumoto S,Matsushita J, Azami T,Kubota Y,Ohji M,Sugiyama F,Takahashi S,Mizuno S,Tamura M,Mizutani KI,Ema M

Year 2022

Species Mouse

eLife

Continuous sensing of IFN by hepatic endothelial cells shapes a vascular antimetastatic barrier.

"14-1402-82 was used in Immunohistochemistry-immunofluorescence to use mouse models of hepatic metastatization to demonstrate that the continuous infusion of therapeutic doses of interferon-alpha (IFN) controls CRC invasion by acting on hepatic endothelial cells (HECs)."

Authors: Tran NL,Ferreira LM,Alvarez-Moya B,Buttiglione V,Ferrini B,Zordan P,Monestiroli A,Fagioli C,Bezzecchi E, Scotti GM,Esposito A,Leone R,Gnasso C,Brendolan A,Guidotti LG,Sitia G

Year 2022

Species Mouse

Dilution 1:200

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

IHC (P) (1) IHC (F) (13) ICC/IF (27) Flow (24) ELISA (1) Neu (1) Misc (3)

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