

CD140a (PDGFRA) Monoclonal Antibody (APA5), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APA5
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_529483

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	2 Publications
Immunohistochemistry (IHC)	-	21 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	2 Publications
Immunocytochemistry (ICC/IF)	-	12 Publications
Flow Cytometry (Flow)	1 µg/test	49 Publications
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-

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, immunoblotting (WB), and immunohistology staining of frozen tissue sections. It has also been reported for blocking ligand binding.

Applications Tested: This APA5 antibody has been tested by flow cytometric analysis of the NIH/3T3 cell line. 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.

Storage and handling: Use in a sterile environment.

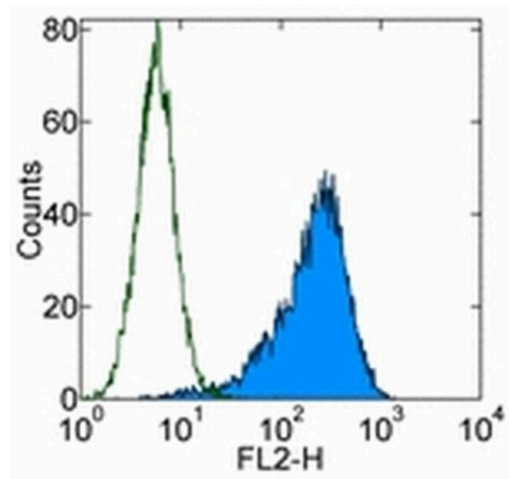
Filtration: 0.2 µm post-manufacturing filtered.

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 CD140a (PDGFRA) Monoclonal Antibody (APA5), Functional Grade, eBioscience™



CD140a (PDGFRA) Antibody (16-1401-82) in Flow
Staining of NIH/3T3 cells with 0.5 µg of Rat IgG2a kappa Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.5 µg of Anti-Mouse CD140a (PDGF Receptor a) 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.

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Western Blot (2)

<p>PLoS genetics</p> <p>Cell-cycle dependent expression of a translocation-mediated fusion oncogene mediates checkpoint adaptation in rhabdomyosarcoma.</p> <p>"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 16-1401-82) in Western Blot"</p> <p>Authors: Kikuchi K,Hettmer S,Aslam MI,Michalek JE,Laub W,Wilky BA,Loeb DM,Rubin BP,Wagers AJ,Keller C</p>	<p>Year</p> <p>2014</p>
<p>Molecular cancer research : MCR</p> <p>Dynamic and nuclear expression of PDGFR and IGF-1R in alveolar Rhabdomyosarcoma.</p> <p>"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 16-1401-82) in Flow Cytometry"</p> <p>Authors: Aslam MI,Hettmer S,Abraham J,Latocha D,Soundararajan A,Huang ET,Goros MW,Michalek JE,Wang S,Mansoor A,Druker BJ,Wagers AJ,Tyner JW,Keller C</p>	<p>Year</p> <p>2013</p>

Immunohistochemistry (21)

<p>Nature neuroscience</p> <p>Placental endocrine function shapes cerebellar development and social behavior.</p> <p>"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 16-1401-82) in Immunohistochemistry"</p> <p>Authors: Vacher CM,Lacaille H,O'Reilly JJ,Salzbank J,Bakalar D,Sebaoui S,Liere P,Clarkson-Paredes C,Sasaki T,Sathyanesan A,Kratimenos P,Ellegood J,Lerch JP,Imamura Y,Popratiloff A,Hashimoto-Torii K,Gallo V,Schumacher M,Penn AA</p>	<p>Year</p> <p>2021</p>
<p>Journal of smooth muscle research = Nihon Heikatsukin Gakkai kikanshi</p> <p>Interstitial cells of Cajal in W^{sh}/W^{sh} c-kit mutant mice.</p> <p>"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 16-1401-82) in Immunohistochemistry"</p> <p>Authors: Iino S,Horiguchi S,Horiguchi K,Hashimoto T</p>	<p>Year</p> <p>2021</p>

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- ICC/IF (12)
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