

CD140a (PDGFRA) Monoclonal Antibody (APA5), PE, eBioscience™

Product Details

Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APA5
Conjugate	PE
Form	Liquid
Concentration	0.2 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_657615

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	38 Publications
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication

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.

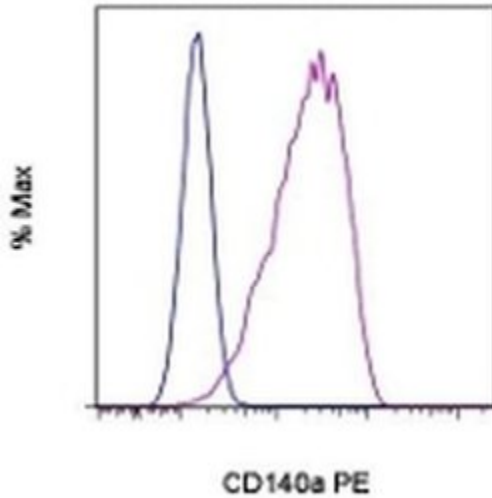
Applications Tested: This APA5 antibody has been tested by flow cytometric analysis of NIH/3T3 cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD140a (PDGFRA) Monoclonal Antibody (APA5), PE, eBioscience™



CD140a (PDGFRA) Antibody (12-1401-81) in Flow

Staining of NIH/3T3 cells with 0.5 µg of Rat IgG2a K Isotype Control PE (Product # 12-4321-80) (blue histogram) or 0.5 µg of Anti-Mouse CD140a (PDGF Receptor a) PE (purple histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Flow Cytometry (38)

eLife

Pdgfra marks a cellular lineage with distinct contributions to myofibroblasts in lung maturation and injury response.

"12-1401 was used in Flow cytometry/Cell sorting to study the behaviour of Pdgfra-lineaged cells."

Authors: Li R, Bernau K, Sandbo N, Gu J, Preissl S, Sun X

Species
Mouse
Not Applicable

Dilution
1:100
Not Cited

Year
2018

International journal of molecular sciences

PPAR Controls Ectopic Adipogenesis and Cross-Talks with Myogenesis During Skeletal Muscle Regeneration.

"12-1401 was used in Flow cytometry/Cell sorting to study muscle regeneration and tissue-resident muscle stem cell function in whole body Pparg null mice generated by epiblast-specific Cre/lox deletion (Pparg^{-/-})."

Authors: Damme G, Karaz S, Lukjanenko L, Winkler C, Sizzano F, Jacot G, Migliavacca E, Palini A, Desvergne B, Gilardi F, Feige JN

Species
Mouse

Dilution
1:30

Year
2018

[View more Flow references on thermofisher.com](#)

Immunofluorescence (2)

Nature medicine

Microenvironmental control of breast cancer subtype elicited through paracrine platelet-derived growth factor-CC signaling.

"12-1401 was used in Immunohistochemistry-immunofluorescence to study the role of cancer-associated fibroblasts as determinants of the molecular subtype of breast cancer."

Authors: Roswall P, Bocci M, Bartoschek M, Li H, Kristiansen G, Jansson S, Lehn S, Sjölund J, Reid S, Larsson C, Eriksson P, Anderberg C, Cortez E, Saal LH, Orsmark-Pietras C, Cordero E, Haller BK, Häkkinen J, Burvenich JG, Lim E, Orimo A, Höglund M, Rydén L, Moch H, Scott AM, Eriksson U, Pietras K

Species
Human

Dilution
1:200

Year
2018

The Journal of investigative dermatology

Paracrine Activin-A Signaling Promotes Melanoma Growth and Metastasis through Immune Evasion.

"12-1401 was used in Immunocytochemistry to test whether a potential tumorigenic role for Activin signaling in melanoma may be curtailed in xenografts by the absence of a functional immune system."

Authors: Donovan P, Dubey OA, Kallioinen S, Rogers KW, Muehlethaler K, Müller P, Rimoldi D, Constan DB

Species
Mouse

Dilution
Not Cited

Year
2017

More applications with references on thermofisher.com

IHC (1) ICC (1) IHC (P) (1) IHC (F) (2)

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