

# CD140a (PDGFRA) Monoclonal Antibody (APA5), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	APA5
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	0.2 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_2815148

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	-

## 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 may be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of an 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

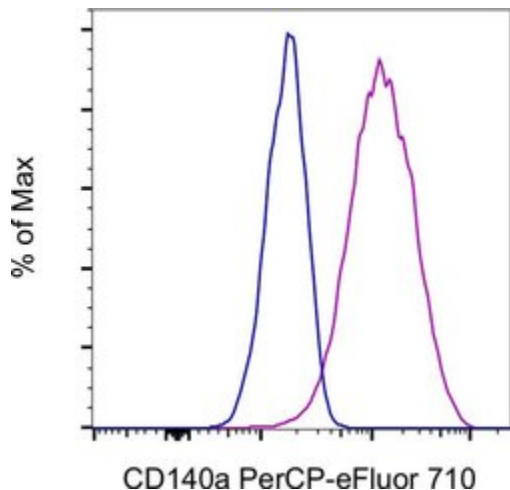
PerCP-eFluor 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser

## Product Images For CD140a (PDGFRA) Monoclonal Antibody (APA5), PerCP-eFluor 710, eBioscience™



### CD140a (PDGFRA) Antibody (46-1401-82) in Flow

NIH/3T3 cell line was stained with 0.06  $\mu$ g of Rat IgG2a kappa Isotype Control, PerCP-eFluor 710 (Product # 46-4321-82) (blue histogram) or 0.06  $\mu$ g of CD140a Monoclonal Antibody, PerCP-eFluor 710 (purple histogram). Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 780 (Product # 65-0865-18).

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