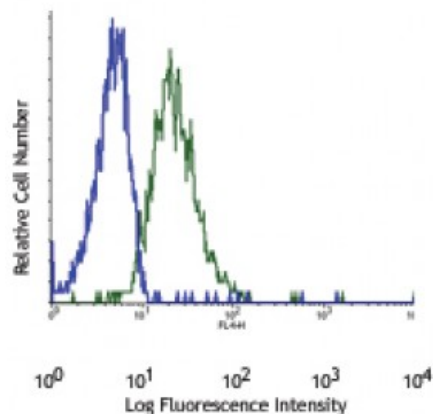


APC anti-mouse CD140a

Catalog # / Size:	1279540 / 100 µg 1279535 / 25 µg
Clone:	APA5
Isotype:	Rat IgG2a, κ
Immunogen:	Mouse PDGFR-α-hlgG1 recombinant fusion protein
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



Mouse fibroblast NIH/3T3 cells stained with APA5 APC

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 microg per 10^6 cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported (for relevant formats) applications include: Western Blot, blocking function ² , and immunohistochemical staining of paraffin and frozen sections. The LEAF™ purified antibody is recommended for functional assays.
Application References:	1. Takakura N, <i>et al.</i> 1996. <i>J. Invest. Dermatol.</i> 107:770. 2. Liao C, <i>et al.</i> 2010. <i>J. Clin. Invest.</i> 120:242. (Block) 3. Wang W, <i>et al.</i> 2014. <i>PNAS.</i> 111:14466. PubMed

Description:	Platelet-derived growth factor receptor-α (PDGFR-α), CD140a, is one of two receptors for platelet-derived growth factors (PDGFs) and binds to all isoforms of PDGFs: PDGF-AA, PDGF-AB, and PDGF-BB. PDGFRα is a receptor tyrosine kinase that forms homodimers or heterodimers on the surface upon ligand binding and phosphorylates substrates. PDGFRs consist of either homodimers of α/α, β/β, or heterodimers of α/β. PDGF receptors, α and β, are single glycoproteins with intracellular tyrosine kinase domain. Their ligand, PDGF, is a mitogen for connective tissue and glial cells. CD140a is expressed on embryonic tissues and mesenchymal-derived cells of adult mice. PDGF plays a role in wound healing and acts as a chemoattractant for fibroblasts, smooth muscle cells, glial cells, monocytes, and neutrophils.
Antigen References:	1. Mukouyama YS, <i>et al.</i> 2006. <i>Proc Natl Acad Sci USA.</i> 103(5):1551 2. Miyawaki T, <i>et al.</i> 2004. <i>J Neurosci.</i> 24(37):8124 3. Takakura N, <i>et al.</i> 1997. <i>J Histochem Cytochem.</i> 45(6):883