

Product Data Sheet

Purified anti-mouse CD140a

Catalog # / Size: 135901 / 25 µg

135902 / 100 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.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - Quality tested

WB, IHC - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is $\leq\!0.25~\mu g$ per million cells in 100 μl 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 function², and immunohistochemical staining of paraffin and frozen sections. The LEAF™ purified antibody is recommended for functional

assays

Application References: 1. Takakura N, et al. 1996. J. Invest. Dermatol. 107:770.

2. Liao C, et al. 2010. J. Clin. Invest. 120:242. (Block)

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. PDGFRa 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

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, et al. 2006. Proc Natl Acad Sci USA. 103(5):1551

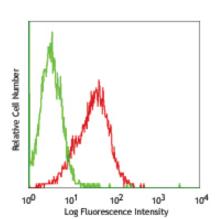
2. Miyawaki T, et al. 2004. J Neurosci. 24(37):8124

3. Takakura N, et al. 1997. J Histochem Cytochem. 45(6):883

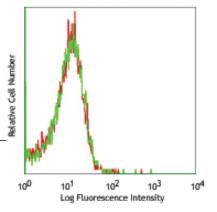
Purified Rat IgG2a, κ Isotype Ctrl

Related Products: Product

Cell Staining Buffer RBC Lysis Buffer (10X) Clone RTK2758



Mouse fibroblast cell line NIH/3T3 stained with APA5 PE



C57BL/6 splenocytes stained with APA5 PE

Application FC, ICC, IF, IHC, IP, WB FC, ICC, ICFC FC, ICFC



