

Product Data Sheet

LEAF[™] Purified anti-mouse CD140a

Catalog # / Size:	135904 / 500 µg
Clone:	APA5

Isotype: Rat IgG2a, κ

Immunogen: Mouse PDGFR-α-hlgG1 recombinant fusion protein

Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 μm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/μg of the protein (<0.01 ng/μg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: FC - Quality tested Block - 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 ≤0.25 µg per million cells in 100 µl volume or 100 µl of whole blood. 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 LEAFTM 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 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 Miyawaki T, et al. 2004. J Neurosci. 24(37):8124
Takakura N, et al. 1997. J Histochem Cytochem. 45(6):883 **Related Products: Product** Clone

LEAF[™] Purified Rat IgG2a, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X) Clone RTK2758 Application FC, ICFC, WB, IP, ICC, IF, IHC, FA FC, ICC, ICFC FC, ICFC



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