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Product Data Sheet

LEAF™ Purified anti-mouse CD140b

Catalog # / Size: 136004 / 500 µg
Clone: APB5
Isotype: Rat IgG2a, κ
Immunogen: Mouse PDGFR-β-hIgG1 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 the relevant formats) applications include: Western blotting and blocking function[2]. The LEAF™ purified antibody is recommended for functional assays.

Application References:
1. Sano H, *et al.* 2001. *Circulation* 103:2955.
2. Sano H, *et al*. 2002. *Am. J. Pathol*. 161:135. (Block)

Description: Platelet-derived growth factor receptor-β (PDGFR-β), CD140b, is one of two receptors for platelet-derived growth factors (PDGFs) and binds to all isoforms of PDGFs. PDGFRβ 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. CD140b is expressed on embryonic tissues and mesenchymal-derived cells 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. Soriano P, *et al.* 1994. *Genes Dev.* 8:1888
2. Takakura N, *et al.* 1996. *J Invest Dermatol.* 107:770
3. Yarden Y, *et al.* 1986. *Nature* 323:226

Related Products:

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

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