

Product Data Sheet

LEAF™ Purified anti-human CD51

Catalog # / Size: 327903 / 50 µg
327904 / 500 µg

Clone: NKI-M9

Isotype: Mouse IgG2a, κ

Workshop Number: IV 103

Immunogen: Melonama cells

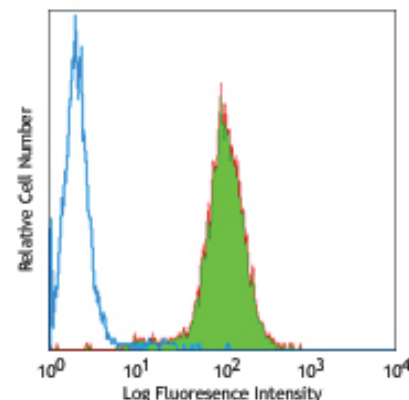
Reactivity: Human

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.



Human melanoma cell line M21 stained with LEAF™ purified NKI-M9, followed by anti-mouse IgG FITC

Applications:

Applications: FC - Quality tested
ELISA, Block, IP - 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 ≤2.0 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 References:

- Knapp W, *et al.* Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.
- Defilippi P, *et al.* 1991. *J. Cell Biol.* 114:855. (IP)
- Burdick MM, *et al.* 2003. *Am. J. Physiol. Cell Ph.* 284:C977. (Block)
- Grzeszkiewicz TM, *et al.* 2001. *J. Biol. Chem.* 276:21943.
- Sonnenberg A, *et al.* 1990. *J. Cell Biol.* 110:2145. (IP)

Description: CD51 is a type I integral membrane glycoprotein, known as vitronectin receptor α chain, or integrin α_v. It forms heterodimer with integrin β1 (CD29), β3 (CD61), β5, β6, or β8. CD51 contains two disulfide-linked subunits of 125 kD and 24 kD, and is expressed on endothelial cells, fibroblasts, macrophages, platelets, osteoclasts, neuroblastoma, melanoma, and hepatoma cells. Many extracellular matrix proteins with RGD-motifs are CD51 ligands. In association with its β chains, CD51 binds vitronectin, von Willebrand factor, fibronectin, thrombospondin, osteopontin, fibrinogen, and laminin. CD51, as an adhesion molecule, plays important roles in leukocytes homing and rolling, mediates bone absorption and angiogenesis.

Antigen References:

- Nesbitt S, *et al.* 1993. *J. Biol. Chem.* 268:16737.
- Zola H, *et al.* 2007. Leukocyte and Stromal Cell Molecules: The CD Markers Wiley-Liss A John Wiley & Sons Inc, Publication

Related Products:

Product	Clone	Application
LEAF™ Purified Mouse IgG2a, κ Isotype Ctrl	MOPC-173	FC, WB, IP, ICFC, ICC, IF, IHC, FA
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC



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