

Biotin anti-human CD51

Catalog # / Size: 327906 / 100 µg

Clone: NKI-M9

Isotype: Mouse IgG2a, κ

Workshop Number: IV 103

Immunogen: Melonama cells

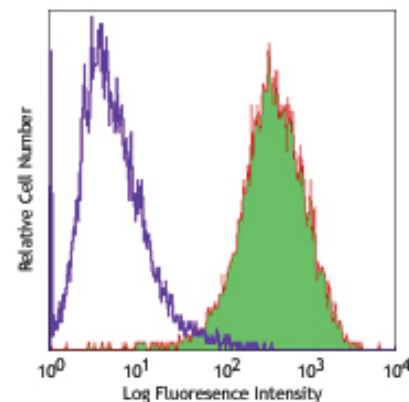
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

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. **Do not freeze**



Human melanoma cell line M21 stained with biotinylated NKI-M9, followed by Sav-PE

Applications:

Applications: FC - Quality tested
 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 $\leq 0.5 \mu\text{g}$ per 10^6 cells in 100 µl. 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. PubMed
- Burdick MM, *et al.* 2003. *Am. J. Physiol. Cell Ph.* 284:C977. PubMed
- Grzeszkiewicz TM, *et al.* 2001. *J. Biol. Chem.* 276:21943.
- Sonnenberg A, *et al.* 1990. *J. Cell Biol.* 110:2145. PubMed
- Fan Z, *et al.* 2012. *PNAS.* 109:16486. PubMed.

Description: CD51 is a type I integral membrane glycoprotein, known as vitronectin receptor α chain, or integrin α_V . It forms heterodimer with integrin β_1 (CD29), β_3 (CD61), β_5 , β_6 , or β_8 . 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
 Biotin Mouse IgG2a, κ Isotype Ctrl

Cell Staining Buffer

RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 MOPC-173

Application
 FC, ICFC
 FC, ICC, ICFC
 FC, ICFC
 FC, ICC, ICFC



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