

## FITC anti-human CD51

**Catalog # / Size:** 327907 / 25 tests  
327908 / 100 tests

**Clone:** NKI-M9

**Isotype:** Mouse IgG2a,  $\kappa$

**Workshop Number:** IV 103

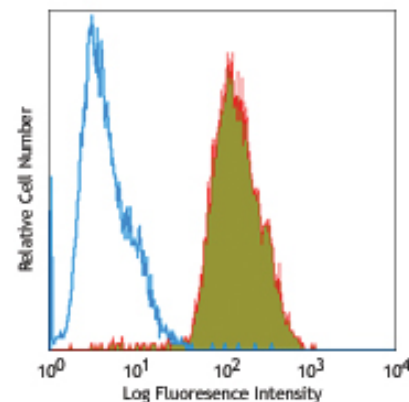
**Immunogen:** Melonama cells

**Reactivity:** Human

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

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human melanoma cell line M21  
stained with NKI-M9 FITC

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**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
- Khurana S, et al. 2013. *Blood.* 121:2587. PubMed

**Description:** CD51 is a type I integral membrane glycoprotein, known as vitronectin receptor  $\alpha$  chain, or integrin  $\alpha_v$ . It forms heterodimer with integrin  $\beta_1$  (CD29),  $\beta_3$  (CD61),  $\beta_5$ ,  $\beta_6$ , or  $\beta_8$ . 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  $\beta$  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
	RBC Lysis Buffer (10X)		FC, ICFC
	FITC Mouse IgG2a, $\kappa$ Isotype Ctrl (FC)	MOPC-173	FC
	Cell Staining Buffer		FC, ICC, ICFC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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