

Product Data Sheet

102

Log Fluoresence Intensity

Human peripheral blood lymphocytes stained with MEM-111 FITC

103

104

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100

101

FITC anti-human CD54

Catalog # / Size:	313103 / 25 tests
Clone:	MEM-111
Isotype:	Mouse IgG2a, κ
Immunogen:	Burkittt's lymphoma cell line Raji
Reactivity:	Human, Cross-Reactivity: Cattle (Bovine), Rat
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.

Applications:

Applications: FC, ICFC - 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 µl to 5 µl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change. 1. Semani RT, et al. 2003. J. Immunol. 171:1950.



- 2. Alonso-Lebrero JL, et al. 2000. Blood 95:2413.
 - 3. Drbal K, et al. 1999. Int. Immunol. 11:491. (WB)
 - 4. Verschueren PC, et al. 2000. Ann. Rhem. Dis. 59:598. (IHC) 5. Merchant SH, et al. 2003. Am. J. Physiol. Heart Circ. Physiol. 284:H1280. (IHC)
 - 6. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

Description: CD54 is a 85-110 kD type I transmembrane protein also known as ICAM-1. It is expressed on activated endothelial cells, high endothelial venules, T and B cells, monocytes/macrophages, granulocytes, and dendritic cells. The expression of ICAM-1 on the cell surface is potently upregulated by activation; a soluble form of ICAM-1 can be released from the cell surface. CD54 plays a role in cellular adhesion and is involved in inflammation and leukocyte extravasation. CD54 has also been shown to be the major cellular receptor for rhinovirus. ICAM-1 binds to CD11a/CD18 (LFA-1), CD11b/CD18 (Mac-1), CD11c/CD18 (p150, 95) as well as hyaluronan and fibrinogen.

Antigen References: 1. Voraberger G, et al. 1991 J. Immunol. 147:2777. 2. Staunton DE, *et al.* 1988. *Cell* 52:925. 3. Greve JM, *et al.* 1989. *Cell* 56:839. **Related Products: Product**

FITC 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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