

Product Data Sheet

PE anti-human CD54

Catalog # / Size: 322707 / 25 tests

322708 / 100 tests

Clone: HCD54

Isotype: Mouse IgG1, κ

Reactivity: Human, Cross-Reactivity: Chimpanzee

Preparation: The antibody was purified by affinity chromatography, and conjugated with

PE under optimal conditions. The solution is free of unconjugated PE and

unconjugated antibody.

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: 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 μ l to 5 μ l per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l 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.

Application Notes: Additional reported applications (for the relevant formats) include: *in vitro* blocking¹ of lymphoctes interaction and immunohistochemistry of acetone-fixed frozen sections¹. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg,

Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 322704).

Application References: 1. Personal communication.

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.

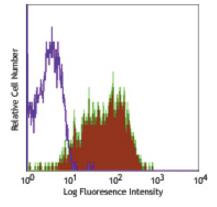
Antigen References: 1. Voraberger G, *et al.*. 1991 *J. Immunol.* 147:2777. 2. Staunton DE, *et al.*. 1988. *Cell* 52:925.

3. Greve JM, et al.. 1989. Cell 56:839.

Related Products: Product Clone Application FC, ICC, ICFC FC Cell Staining Buffer

MOPC-21

PE Mouse IgG1, κ Isotype Ctrl (FC) Human TruStain FcX™ (Fc Receptor Blocking Solution) FC, ICC, ICFC



Human peripheral blood lymphocytes stained with HCD54 PE



