

Biotin anti-human CD54

Catalog # / Size: 322706 / 100 µg

Clone: HCD54

Isotype: Mouse IgG1, κ

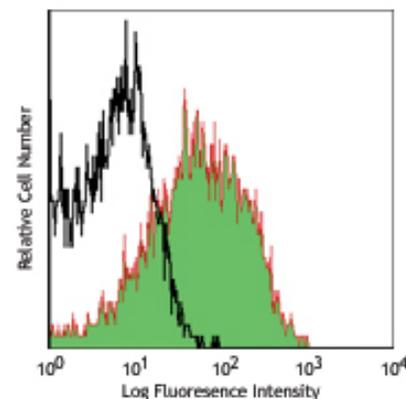
Reactivity: Human, **Cross-Reactivity:** Chimpanzee

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 peripheral blood lymphocytes stained with biotinylated HCD54, followed by Sav-PE

Applications:

Applications: FC - *Quality tested*

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 ≤ 0.5 µg per 10⁶ 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 Notes: Additional reported applications (for the relevant formats) include: *in vitro* blocking¹ of lymphocytes 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
Biotin Mouse IgG1, κ Isotype Ctrl

APC/Cy7 Streptavidin

Cy5 Streptavidin

PE/Cy7 Streptavidin

Cell Staining Buffer

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MOPC-21

Application

FC, ICFC

FC, ICFC

FC, ICFC

FC, ICFC

FC, ICC, ICFC

FC, ICC, ICFC



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