

## FITC anti-human CD54

**Catalog # / Size:** 322719 / 25 tests  
322720 / 100 tests

**Clone:** HCD54

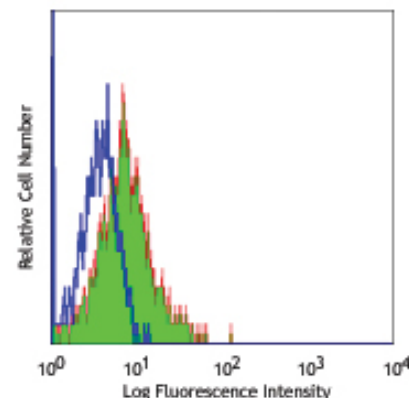
**Isotype:** Mouse IgG1,  $\kappa$

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

**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 peripheral blood lymphocytes stained with HCD54 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 Notes:** Additional reported applications (for the relevant formats) include: *in vitro* blocking<sup>1</sup> of lymphocytes interaction and immunohistochemistry of acetone-fixed frozen sections<sup>1</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m 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:

<p>Product</p> <p>FITC Mouse IgG1, <math>\kappa</math> Isotype Ctrl</p> <p>Cell Staining Buffer</p> <p>RBC Lysis Buffer (10X)</p> <p>Human TruStain FcX™ (Fc Receptor Blocking Solution)</p>	<p>Clone</p> <p>MOPC-21</p>	<p>Application</p> <p>FC, ICFC</p> <p>FC, ICC, ICFC</p> <p>FC, ICFC</p> <p>FC, ICC, ICFC</p>
--	-----------------------------	--



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.