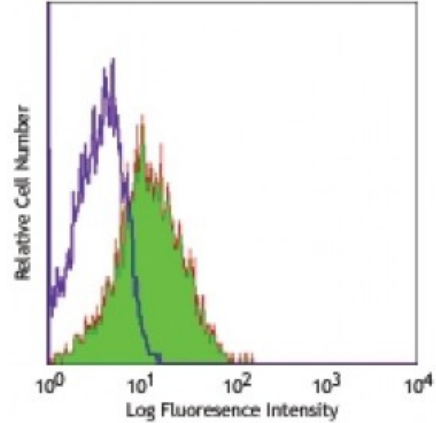


Purified anti-human CD54

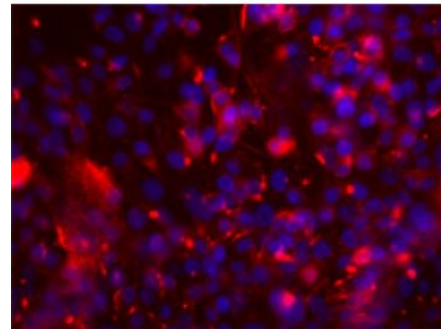
Catalog # / Size: 2213510 / 100 µg
Clone: HCD54
Isotype: Mouse IgG1, κ
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



Human peripheral blood lymphocytes stained with purified HCD54, followed by anti-mouse IgG FITC

Applications:

Applications: Flow Cytometry, Immunohistochemistry
Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤2.0 microg per million cells in 100 microL volume. 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* blocking of lymphocytes interaction¹. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 322704).



MDA-MB231 breast cancer cell line was stained with anti-human CD54, detected with anti-mouse DyLight™ 649, and nuclear counterstained with DAPI. Images were acquired with a TE300 fluorescence microscope with a 20x objective. Data provided by: Er Liu

Application References: 1. Choi YW, *et al.* 2009. *Vascul Pharmacol.* 51:215. [PubMed](#)

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.