SONY

Product Data Sheet

Purified anti-human CD54

Catalog # / Size: 2365505 / 25 µg
2365510 / 100 µg

Clone: HA58

Isotype: Mouse IgG1, κ

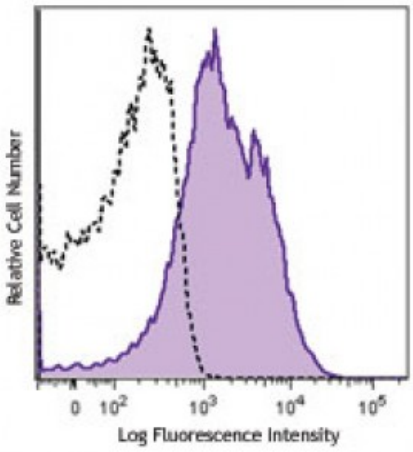
Immunogen: Colonic cancer BM314 cells

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



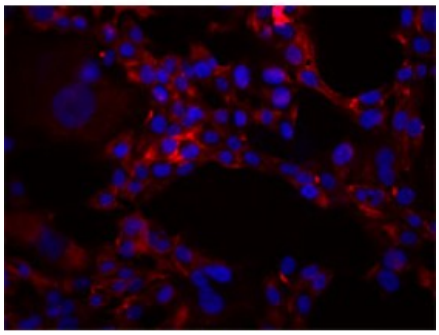
Human peripheral blood lymphocytes were stained with CD54 (clone HA58) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

Applications:

Applications: Flow Cytometry

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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Clone HA58 recognizes an epitope located in the extracellular D1 domain of CD54.3



MDA-MB435 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. Tsujisaki M, *et al.* 1991. *Clin. Exp. Immunol.* 85:3.
2. Kanwar JR, *et al.* 2003. *Cancer Gene Ther.* 10:468.
3. Kohka H, *et al.* 1998. *J. Leukoc. Biol.* 64:519.

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 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.