

Anti-Human CD54 (ICAM-1) FITC

Catalogue Number : 06611-50

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: 15.2

Format/Conjugate: FITC

Concentration: 5 uL (0.5 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

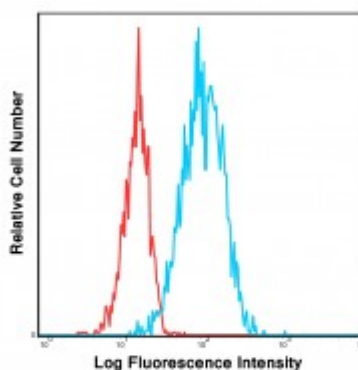
Brightness (1=dim,5=brightest): 3

Isotype: Mouse IgG1

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC



Human peripheral blood monocytes were stained with FITC 15.2 with relevant isotype control in Red.

Description

The 15.2 antibody reacts with the 85-110 kDa intracellular adhesion molecule-1 (ICAM-1), a member of the Ig superfamily which acts as a ligand for the Lymphocyte Function-Associated Antigen-1 (LFA-1). ICAM-1 is also known CD 54 and is expressed on non-hematopoietic cells of vascular endothelial, thymic epithelial, fibroblasts lineages, and on hematopoietic cells like macrophages, mitogen-stimulated T-lymphoblasts, dendritic cells in tonsils, lymph nodes and Peyer's patches, and germinal center B cells.

Inflammatory mediators (IL-1, TNF, IFN- γ) enhance the production of ICAM-1 on fibroblasts and endothelial cells within few hours. Thus, ICAM-1 seems to be the marker of inflammatory reactions.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 μ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 μ L.

References

1. Bhattacharya, A. L. O. K., Dorf, M. E., ; Springer, T. A. (1981). A shared alloantigenic determinant on Ia antigens encoded by the IA and IE subregions: evidence for I region gene duplication. *The Journal of Immunology*,;127(6), 2488-2495.
2. Mendiratta, S. K., Singh, N., Bal, V., ; Rath, S. (1996). Analysis of T-cell hybridomas with an unusual MHC class II-dependent ligand specificity. *Immunology*,;89(2), 238-244.
3. Unternaehrer, J. J., Chow, A., Pypaert, M., Inaba, K., ; Mellman, I. (2007). The tetraspanin CD9 mediates lateral association of MHC class II molecules on the dendritic cell surface. *Proceedings of the National Academy of Sciences*,104(1), 234-239.