

## Anti-Human CD54 (ICAM-1) APC

Catalog Number :06611-80

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

### Product Information

**Clone:** 15.2

**Format/Conjugate:** APC

**Concentration:** 5  $\mu$ L (0.5  $\mu$ g)/test

**Reactivity:** Human

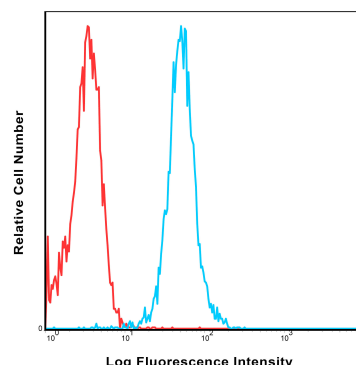
**Laser:** Red (635 -655nm)

**Peak Emission:** 660nm

**Peak Excitation:** 650nm

**Filter:** 660/20

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



Human peripheral blood lymphocytes were stained with APC 15.2 with relevant isotype control in Red.

**Isotype:** Mouse IgG1

**Formulation:** Phosphate-buffered aqueous solution,  $\leq 0.09\%$  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

### 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- $\gamma$ ) 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  $\mu$ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100  $\mu$ 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.