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Technical Data Sheet

Anti-Human CD54 (ICAM-1) PE

Catalog Number :06611-60

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

Product Information

Clone: 15.2

Format/Conjugate: PE

Concentration: 5 uL (0.5 ug)/test

Reactivity: Human

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

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

Description

The 15.2 antibody reacts with human CD54, also known as ICAM-1 (Intercellular Adhesion Molecule 1), a 90-110 kDa cell surface glycoprotein that is inducibly expressed on both immune and endothelial cells. As its name implies, ICAM-1 participates in cell-cell adhesion between leukocytes and endothelial cells, facilitating leukocyte recruitment and transmigration at sites of inflammation. The ligands for ICAM-1 are also expressed on leukocyte and endothelial cells, and include Mac-1, fibrinogen, and a member of the integrin protein family, LFA-1 (CD11a).

The 15.2 antibody may be used for analysis of ICAM-1 expression in human cells and tissues, and is reported to be cross-reactive with porcine ICAM-1.

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 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

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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.