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Technical Data Sheet

Anti-Human CD54 (ICAM-1) SAFIRE Purified

Catalog Number :06611-25

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

Product Information

Clone: 15.2

Format/Conjugate: SAFIRE Purified

Concentration: 2 mg/mL

Reactivity: Human

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Mouse IgG1

Formulation: Phosphate-buffered aqueous solution, ph7.2.

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

Applications: FC, FA, IHC, WB

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. Do not freeze. The monoclonal antibody was purified utilizing affinitychromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/µg of the protein.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

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.

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