



Anti-Mouse CD54 (ICAM-1)-Purified Whole Molecule No Azide/No BSA

Prod. No.: C391

Clone: BE29G1

Isotype: Rat IgG_{2a}

Conc.: 0.5 mg/ml

Pkg. Size: 0.5 mg

Description

Specificity: Anti-Mouse CD54 (ICAM-1) recognizes the (Mr 95 kD) cell surface glycoprotein known as intracellular adhesion molecule ICAM-1. ICAM-1 is the receptor for LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18).^{1,2,3}

Antigen Distribution: The CD54 antigen is present on endothelial cells, lymphocytes, epithelial cells, dendritic cells and keratinocytes. It has been demonstrated that ICAM-1 enhances T-cell activation.

Appearance

Anti-Mouse CD54 is affinity purified and supplied in 0.01M phosphate buffered saline (PBS) pH 7.2.

Working Dilution

Leinco Technologies recommends using one microgram to stain 1.0×10^6 cells in flow cytometric applications. Depending on the particular application, some variance can be expected. Each investigator should determine their own working dilution for individual use.

Storage and Stability

Stable when stored at 4° C. **Do not freeze.**

Applications

This antibody blocks the binding LFA-1 (CD11a/CD18) to ICAM-1. The antibody is suitable for studies of inflammation, lymphocyte differentiation, and lymphocyte activation. Anti-Mouse CD54 can be used in flow cytometry, immunoprecipitation and immunohistochemistry.

References

1. Kuhlman, P. *et al.* (1991) *J. of Immunol.* **146(6)**:1773
2. Schynius, A. *et al.* (1993) *J. Immunol.* **150**:655
3. Harlan, J. M. and Liu, D. Y. (1992) *Adhesion: Its Role in Inflammatory Disease*, W. H. Freeman and Co., New York, p. 154