



**Category:** Monoclonal Antibodies      **Cat. #** V6041      **Product Name:** CD54, Intracellular Adhesion Molecule-1 - Purified

**Description:**  
Monoclonal Mouse Anti-Human CD54, Intracellular Adhesion Molecule-1. ICAM-1

**Immunogen:**  
RAJ1 Burkitt lymphoma cells..

**Application:**  
Immunofluorescence 5-20 ug/mL. Flow cytometry 1-5 ug/10<sup>6</sup> cells. Immunohistochemistry 5-20 ug/mL on frozen sections using avidin-biotin system. The optimal dilution factors should be determined by the individual laboratory.

**Species Reactivity:**  
Human. Others not tested.

**Recommended Positive Control:**  
Tonsil and Lymph Node

**Presentation:**  
50 mM Sodium Borate, 150 mM Sodium Chloride, 20% Glycerol and 0.05% Sodium azide, pH 8.0.

**Aliquoting Instructions:**  
In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies. Avoid diluting the entire contents of the vial at once since the diluted solution may have reduced stability.

**Staining Procedure:**  
This antibody has been tested in immuno-histochemistry and FLOW.

**Specificity:**  
ICAM-1 belongs to the immunoglobulin superfamily, C2 subset, and is a transmembrane molecule of 90 kD with 7 potential N-glycosylated sites. It is expressed on resting monocytes and endothelial cells and can be upregulated on many other cells, e.g. with lymphokines, on Band T-lymphocytes, thymocytes, dendritic cells and also on keratinocytes, chondrocytes, as well as epithelial cells. CD54 mediates cell adhesion by binding to integrins CD11a/CD18 (LFA-1) and to CD11b/CD18 (Mac-1). The interaction of CD54 with LFA-1 enhances antigen-specific T-cell activation. CD54 also bind to CD43 and to Plasmodium falciparum infected erythrocytes.

**Storage:**  
Store at 2~8°C for short term, freeze under -20°C for long term storage.

**Size:** 0.2 mg  
**Clone:** B327(1H4)  
**Isotype:** IgG2b, k  
**Host:** Mouse  
**Form:** Purified  
**Concentration:** 0.5 mg/ml  
**Units On Hand:** YES

**References:**  
1. Schlossman, S.F., et.al., Leucocyte typing V. White Cell Differentiation Antigens. Oxford University Press, 1995.  
2. Olweus, J., et al., J. Immunol. 151:70, 1993.

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