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**Anti-Mouse CD54/ICAM-1
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8954AP	Purified	0.5 mg	0.5 mg/ml	CLCR2B00
CL8954B	Biotin	0.5 mg	0.5 mg/ml	CLCR2B15
CL8954F	PE	0.5 mg	0.5 mg/ml	CLCR2B01
CL8954PE	PE	0.1 mg	0.1 mg/ml	CLCR2B04

Isotype: Rat IgG_{2b}, κ

DESCRIPTION:

CD54, a member of the immunoglobulin superfamily of cell surface receptors and also known as Intercellular Adhesion Molecule-1 (ICAM1), is a type I transmembrane glycoprotein that mediates important cell/cell interactions. CD54 is expressed on endothelial cells, dendritic cells, keratinocytes, and lymphocytes. Its expression is upregulated by inflammatory mediators such as IFN-γ, IL-1, TNF-α, lipopolysaccharide and phorbol esters. Endothelial CD54 contributes to the extravasation of leukocytes from blood vessels, particularly in areas of inflammation. CD54 on antigen-presenting cells contributes to antigen-specific T-cell activation, presumably by enhancing interactions between T cell and antigen presenting cells. These adhesion reactions are mediated via the binding of CD54 to its major ligands, LFA-1 and Mac-1.

PRESENTATION:

Purified: Purified IgG in borate buffered saline, pH 8.2 with no preservative. For maximum recovery of contents, spin down tube before use.

Biotin and FITC: Biotin/FITC conjugated IgG buffered in PBS, 0.1% NaN₃.

PE: PE conjugated IgG buffered in PBS, 0.09% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE conjugate. For long term storage (**Purified, Biotin and FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: YN1/1.7.4

Immunogen: Mouse NS-1 cells

Specificity: Mouse/Porcine CD54; Mw 95 kDa.

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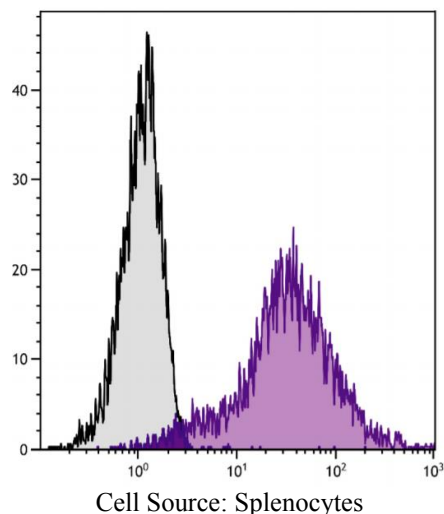
TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: C57BL/6

Cell Concentration: 1×10^6 cells per test

Antibody Concentration used: 1.0 - 0.2 $\mu\text{g} / 10^6$ cells



N.B. Appropriate control samples should always be included in any labelling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. Takei F. (1985) Inhibition of mixed lymphocyte response by a rat monoclonal antibody to a novel murine lymphocyte activation antigen (MALA-2). *J Immunol.* 134:1403-7.
2. Kumasaka T, et al. (1996) Role of the intercellular adhesion molecule-1(ICAM-1) in endotoxin-induced pneumonia evaluated using ICAM-1 antisense oligonucleotides, anti-ICAM-1 monoclonal antibodies, and ICAM-1 mutant mice. *J Clin Invest.* 97:2362-9.
3. Krauss K, Altevogt P. (1999) Integrin leukocyte function-associated antigen-1-mediated cell binding can be activated by clustering of membrane rafts. *J Biol Chem.* 274:36921-7.
4. Muntasell A, Berger AC, Roche PA. (2007) T cell-induced secretion of MHC class II-peptide complexes on B cell exosomes. *EMBO J.* 26:4263-72.

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