



# SZABO SCANDIC

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## Produktinformation



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### Zuschläge

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

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

Isotype: Rat IgG<sub>2b</sub>, 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% NaN<sub>3</sub>.

**PE:** PE conjugated IgG buffered in PBS, 0.09% NaN<sub>3</sub> 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.

*Continued.....*

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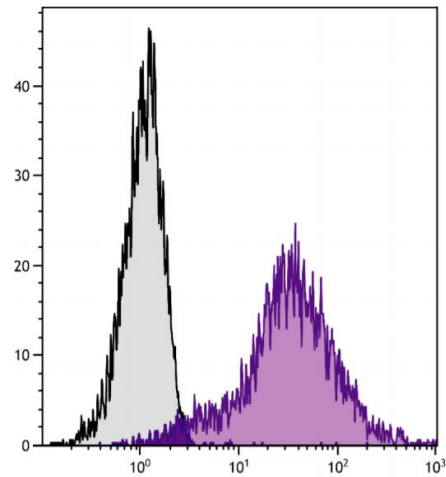
## **TEST RESULTS:**

### Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: C57BL/6

Cell Concentration:  $1 \times 10^6$  cells per test

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



Cell Source: Splenocytes

**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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