

## Monoclonal Antibody to CD54 / ICAM1 - FITC

<b>Alternate names:</b>	ICAM-1, Intercellular adhesion molecule 1, Major Group Rhinovirus Receptor
<b>Catalog No.:</b>	AM03205FC-N
<b>Quantity:</b>	100 Tests
<b>Background:</b>	CD54 (ICAM-1) is a 90 kD member of the C2 subset of immunoglobulin superfamily. It is a transmembrane molecule with 7 potential N-glycosylated sites, expressed on resting monocytes and endothelial cells and can be upregulated on many other cells, e.g. with lymphokines, on B- and 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.
<b>Uniprot ID:</b>	<a href="#">P05362</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Host / Isotype:</b>	Mouse / IgG2b
<b>Clone:</b>	1H4
<b>Immunogen:</b>	Raji cells and spleen cells fused with NS1 cells
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Buffer System:</b> Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent. <b>Label:</b> FITC – Conjugated with Fluorescein isothiocyanate
<b>Applications:</b>	Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	The antibody reacts with CD54 (ICAM-1), a 85-110 kDa type I transmembrane glycoprotein (receptor for rhinovirus) expressed on activated endothelial cells, T lymphocytes, B lymphocytes, monocytes, macrophages, granulocytes and dendritic cells; the expression of CD54 is upregulated by activation. <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Boyd AW, Wawryk SO, Burns GF, Fecondo JV. Intercellular adhesion molecule 1 (ICAM-1) has a central role in cell-cell contact-mediated immune mechanisms. Proc Natl Acad Sci U S A. 1988 May;85(9):3095-9. PubMed PMID: 3362863. 2. Boyd AW, Dunn SM, Fecondo JV, Culvenor JG, Dührsen U, Burns GF, et al. Regulation of

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expression of a human intercellular adhesion molecule (ICAM-1) during lymphohematopoietic differentiation. *Blood*. 1989 May 15;73(7):1896-903. PubMed PMID: 2469503.

3. Springer TA. Adhesion receptors of the immune system. *Nature*. 1990 Aug 2;346(6283):425-34. PubMed PMID: 1974032.

4. Ockenhouse CF, Betageri R, Springer TA, Staunton DE. Plasmodium falciparum-infected erythrocytes bind ICAM-1 at a site distinct from LFA-1, Mac-1, and human rhinovirus. *Cell*. 1992 Jan 10;68(1):63-9. PubMed PMID: 1346257.

5. Williams DT, Chaudhry Y, Goodfellow IG, Lea S, Evans DJ. Interactions of decay-accelerating factor (DAF) with haemagglutinating human enteroviruses: utilizing variation in primate DAF to map virus binding sites. *J Gen Virol*. 2004 Mar;85(Pt 3):731-8. PubMed PMID: 14993659.

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