

## Monoclonal Antibody to CD54 / ICAM1 - PE

<b>Alternate names:</b>	ICAM-1, Intercellular adhesion molecule 1, Major Group Rhinovirus Receptor
<b>Catalog No.:</b>	BM2448PE
<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 / IgG2a
<b>Clone:</b>	MEM-111
<b>Immunogen:</b>	Raji human Burkitt's lymphoma cell line
<b>Format:</b>	<b>State:</b> Liquid 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> PE – Conjugated with R-Phycoerythrin under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use
<b>Applications:</b>	Flow cytometry: 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	The antibody MEM-111 reacts with CD54 (ICAM-1), a 85-110 kDa type I transmembrane glycoprotein (receptor for rhinovirus). The expression of CD54 is upregulated by activation; it is expressed on activated endothelial cells, T lymphocytes, B lymphocytes, monocytes, macrophages, granulocytes and dendritic cells. <b>Species:</b> Human, Rat, and Bovine. 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 References:</b>	1. Leeuwenberg J.F.M. et al.: E-selectin and intercellular adhesion molecule-1 are released by activated human endothelial cells in vitro. <i>Immunology</i> 77, 543 (1992). 2. Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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