



11-228-C100

Monoclonal Antibody to CD54 Purified Antibody (0.1 mg)

Clone:	MEM-111
Isotype:	Mouse IgG2a
Specificity:	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. HLDA VI; WS Code AS A049
Regulatory Status:	RUO
Immunogen:	Raji human Burkitt's lymphoma cell line
Species Reactivity:	Human, Rat, Bovine
Application:	Flow Cytometry Recommended dilution: 2 µg/ml Western Blotting Positive control: RAJI cell line K562 leukemia cell line JY cell line Activated T-lymphocytes Application note: Non-reducing conditions. Immunohistochemistry (paraffin sections) Recommended dilution: 10 µg/ml Positive tissue: thymus, RE cells ELISA
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

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**Antibodies****References:**

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