

11-228-C025

Monoclonal Antibody to CD54 Purified Antibody (0.025 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.

For laboratory research only, not for drug, diagnostic or other use.



PRODUCT DATA SHEET

References:

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