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- Mindermengenzuschlag
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Purified Mouse anti-CD54 / ICAM-1 Monoclonal Antibody

CLX58AP

Lot:

Size: 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

Immunogen: Raji human Burkitt's lymphoma cell line

Species Reactivity: Human, Rat, Bovine

Application: **Flow Cytometry**
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 mg/ml
Positive tissue: thymus, RE cells
ELISA

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites 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 use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

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Background:

CD54 (ICAM-1) is a 90 kDa 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.

References:

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- *Bacáková L, Mares V, Bottone MG, Pellicciari C, Lisá V, Svorčík V: Fluorine ion-implanted polystyrene improves growth and viability of vascular smooth muscle cells in culture. *J Biomed Mater Res.* 2000 Mar 5;49(3):369-79.

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