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30-1133: Anti-CD54 / ICAM-1 Monoclonal Antibody (Clone:MEM-111)

Clonality: Monoclonal **Clone Name:** MEM-111 Application: FACS Reactivity: Rat Gene: ICAM1 Gene ID: 3383 **Uniprot ID:** P05362 **Purified** Format: **Alternative Name:** ICAM1 Isotype: Mouse IgG2a

Immunogen Information: Raji human Burkitt's lymphoma cell line

Description

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.

Product Info

Amount: 0.1 mg

Purification : Purified by protein-A affinity chromatography

Storage condition : Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 0.5-4 µg/ml.

Immunohistochemistry (paraffin sections): Recommended dilution: 10 μg/ml; positive tissue: thymus, RE cells.

Western blotting: Positive control: RAJI cell line K562 leukemia cell line, JY cell line, aa ctivated T-lymphocytes, non-reducing conditions.

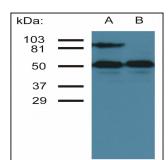


Figure 1: Western blottin analysis of CD54 expression in TNF-alpha activated (A) and nonactivated (B) HUVEC cells by antibody MEM-111. Lower bands represent tubulin as a loading control.