

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
Format :	Purified
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, activated T-lymphocytes, non-reducing conditions.

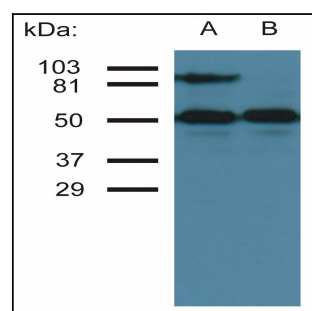


Figure 1: Western blotting analysis of CD54 expression in TNF-alpha activated (A) and nonactivated (B) HUVEC cells by antibody MEM-111. Lower bands represent tubulin as a loading control.