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ICAM1

Reactivity: Human Mouse

Tested applications:WB IF

Recommended Dilution:WB 1:500 - 1:1000 IF 1:20 - 1:50

Calculated MW:59kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human ICAM1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

CD54; Icam-1; Ly-47; MALA-2; MGC6195; Icam1;

Catalog #:A0307

Antibody Type:

Monoclonal Antibody

Species: Mouse

Gene ID:3383

Isotype: IgG

Swiss Prot:P13597

Purity: Affinity purification

For research use only.

Background:

Intercellular cell adhesion molecule-1 (CD54 or ICAM-1) is a cell surface glycoprotein that belongs to the immunoglobulin superfamily (IgSF) of adhesion molecules. CD54 is expressed at low levels in diverse cell types, and is induced by cytokines (TNF-, interleukin-1) and bacterial lipopolysaccharide (1). Apical localization of CD54 on endothelial cells (or basolateral localization on epithelial cells) is a prerequisite for leukocyte trafficking through the endothelial (or epithelial) barrier (1). Apical expression of CD54 on epithelial cells mediates pathogen invasion as well as host defense, a pattern also observed in tumors (1). CD54 also functions as a co-stimulator on antigen presenting cells, binding to its receptor LFA-1 (leukocyte function-associated antigen-1) on the surface of T cells during antigen presentation (2). Cross-linking of CD54 or binding to its ligand triggers activation of Src family kinases and the Rho/ROCK pathway (3-7). Phosphorylation on Tyr485 of CD54 is required for its association with SHP-2 (5). SHP-2 seems essential for CD54-induced Src activation (7).

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