Anti-CD54 / ICAM-1 Antibody (Clone W-CAM-1)

CATALOG NO: A1552-100

ALTERNATIVE NAMES: CD54; Cell surface glycoprotein P3.58; Human rhinovirus receptor; ICAM-1; Intercellular adhesion molecule 1; Ly 47; Major group rhinovirus receptor; MALA2; MyD10; Surface antigen of activated B cells

AMOUNT: 100 µg

IMMUNOGEN: Raji Burkitt lymphoma cells

HOST/ISOTYPE: Mouse / IgG2b, kappa

CLONALITY: Monoclonal

CLONE: W-CAM-1; same as Wehi-CAM-1 or 1H4

MOL WEIGHT: 85-115 kDa

SPECIES REACTIVITY: Human

PURIFICATION: Protein A/G purification

FORM: Liquid

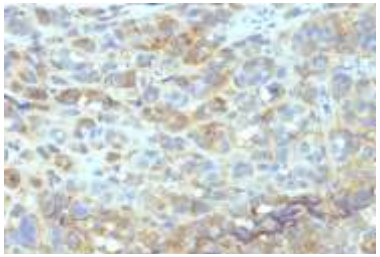
FORMULATION: Supplied in 10 mM PBS with 0.05% BSA & 0.05% azide

STORAGE CONDITIONS: Shipped at 4°C. Long term storage at -20°C.

DESCRIPTION: Recognizes an 85-115 kDa protein (variation with cell type), identified as intercellular adhesion molecule (ICAM-1). It has 7 potential N-linked glycosylation sites. ICAM-1 is a single chain glycoprotein of Ig supergene family, present on unstimulated endothelial cells (EC) and on a variety of other cell types including activated fibroblasts, EC, macrophages, and lymphocytes. ICAM-1 mediates cell adhesion by binding to integrins CD11a/CD18 (leukocyte adhesion molecule, LFA-1) and to CD11b/CD18 (Mac-1). This interaction enhances antigen-specific T-cell activation. ICAM-1 also binds to CD43 and to Plasmodium falciparum infected RBCs. W-CAM-1 mAb blocks aggregation of cell lines mediated by the ICAM-1 and blocks homotypic binding of purified populations of activated T- and B-lymphocytes and also aggregation of mixed T- and B-cell blasts. It inhibits T-cell adhesion to normal human endothelial cells. Activation induced by cell-cell contact (mixed lymphocyte reaction, T-cell mediated B-cell activation) is significantly inhibited. This mAb blocks elements of both effector arms of immune system (cytotoxic cell function and Ig production).

APPLICATION: FC: 0.5-1 µg/1X10^6 cells in 0.1 ml
IF: 0.5-1 µg/ml
IHC: 2-4 µg/ml for 30 minutes at RT
(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0 for 10-20 min followed by cooling at RT for 20 minutes)

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



Formalin-fixed, paraffin-embedded human Melanoma stained with CD54 Antibody (W-CAM-1).

RELATED PRODUCTS:

- CD54 (ICAM1) FITC Monoclonal Antibody (Clone 15.2) **(Cat. No. 6961)**
- ICAM-1, human recombinant **(Cat. No. 7161)**
- ICAM2, human recombinant **(Cat. No. 7349)**
- ICAM-1 Antibody **(Cat. No. 3422R)**
- ICAM-1 Blocking Peptide **(Cat. No. 3422RBP)**
- ICAM-2 Antibody **(Cat.No.3926)**
- ICAM-2 Blocking Peptide **(Cat. No. 3926BP)**
- ICAM-1 (human) ELISA Kit **(Cat. No. K7161)**
- ICAM-1 (mouse) ELISA Kit **(Cat. No. K7162)**
- Human CellExp™ ICAM1 /CD54, human recombinant **(Cat. No. 7486)**
- Human CellExp™ ICAM2 /CD102, human recombinant **(Cat. No. 7487)**

FOR RESEARCH USE ONLY! Not to be used on humans.