

Product Datasheet

ICAM-1 Antibody / CD54 (orb2638618)

Catalog Number	orb2638618
Category	Antibodies
Description	Recognizes an 85-115kDa protein (variation with cell type), identified as intercellular adhesion molecule (ICAM-1) (Workshop IV). 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).
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human
Purification	Protein G affinity chromatography
Immunogen	Raji Burkitt lymphoma cells were used as the immunogen for the ICAM-1 antibody.

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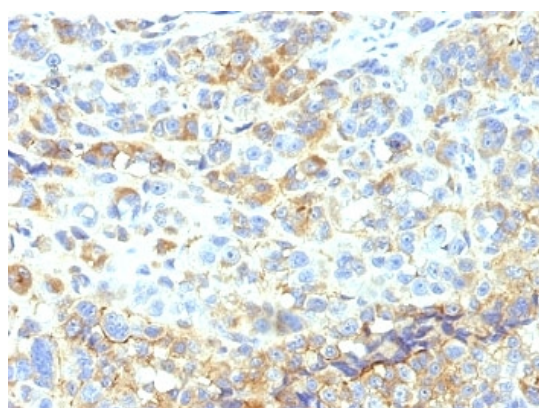
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UniProt ID	P05362
Tested applications	FA, FACS, IHC-P
Dilution range	Flow cytometry: 0.5-1ug/million cells in 0.1ml, Functional testing (order BSA/sodium azide-free format), Immunohistochemistry (FFPE): 2-4ug/ml for 30 min at RT (1), Prediluted IHC only format: incubate for 30 min at RT (2)
Application notes	Optimal dilution of the ICAM-1 antibody should be determined by the researcher. 1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 10-20 min followed by cooling at RT for 20 min. 2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	1H4 or W-CAM-1 or Wehi-CAM-1
Formula	1 mg/ml in 1X PBS; BSA free, sodium azide free
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only



IHC analysis of formalin-fixed, paraffin-embedded human melanoma stained with ICAM-1 antibody (clone 1H4).

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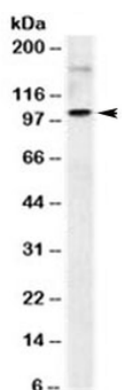
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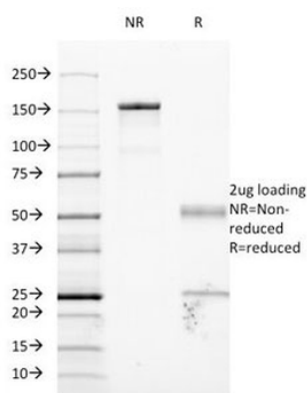
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Western blot testing of human Raji cell lysate with ICAM-1 antibody (clone 1H4). Predicted molecular weight: ~58/75-115kDa (unmodified/glycosylated).



SDS-PAGE Analysis of Purified, BSA-Free ICAM-1 Antibody (clone 1H4 or W-CAM-1 or Wehi-CAM-1). Confirmation of Integrity and Purity of the Antibody.

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