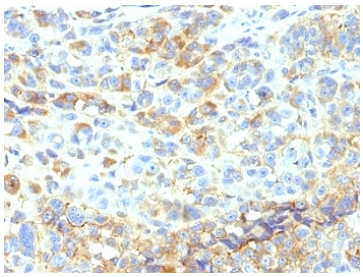
ICAM-1 Antibody / CD54 [clone 1H4 or W-CAM-1 or Wehi-CAM-1] (V2604)

Catalog No.	Formulation	Size
V2604-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2604-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2604SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2604IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

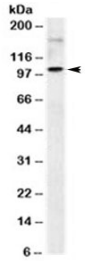
Citations (12)

Bulk quote request

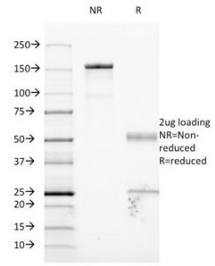
Availability	1-3 business days
Species Reactivity	Human. Other species not known.
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	1H4 or W-CAM-1 or Wehi-CAM-1
Purity	Protein G affinity chromatography
UniProt	P05362
Localization	Cell surface
Applications	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)
Limitations	This ICAM-1 antibody is available for research use only.



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



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.

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).

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.

Immunogen

Raji Burkitt lymphoma cells were used as the immunogen for the ICAM-1 antibody.

Storage

Store the ICAM-1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).