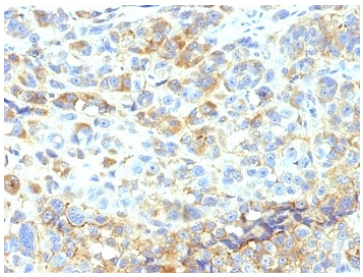
ICAM-1 Antibody W-CAM-1 / Wehi-CAM-1 Antibody [clone W-CAM-1 or Wehi-CAM-1 or 1H4] (V2604)

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

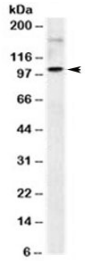
Citations (12)

Bulk quote request

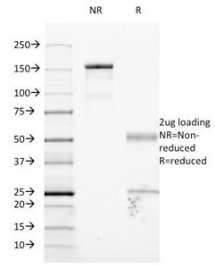
Availability	1-3 business days
Species Reactivity	Human. Other species not known.
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	W-CAM-1 or Wehi-CAM-1 or 1H4
Purity	Protein G affinity chromatography
UniProt	P05362
Localization	Cell surface
Applications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



ICAM-1 Antibody W-CAM-1 in Human Melanoma IHC. Immunohistochemistry staining of FFPE human melanoma tissue with ICAM-1 Antibody clone W-CAM-1 shows heterogeneous immunoreactivity, with prominent membranous and cytoplasmic staining in subsets of tumor cells. The Wehi-CAM-1 Antibody, also known as clone 1H4, was tested following heat-induced epitope retrieval by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 10-20 min followed by cooling at room temperature for 20 min.



ICAM-1 Antibody W-CAM-1 in Raji Burkitt Lymphoma Cells WB. Western blot testing of human Raji Burkitt lymphoma cell lysate with ICAM-1 Antibody clone W-CAM-1 shows a predominant band at approximately 100 kDa. Although unmodified ICAM1/CD54 has a predicted molecular weight of approximately 58 kDa, extensive N-linked glycosylation produces mature forms that commonly migrate at approximately 75-115 kDa. The observed band is therefore consistent with glycosylated ICAM1 detected by this historically published Wehi-CAM-1 Antibody, also known as clone 1H4.



Purified ICAM-1 Antibody W-CAM-1 SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free ICAM-1 Antibody clone W-CAM-1 under non-reduced (NR) and reduced (R) conditions demonstrates the integrity of the mouse monoclonal antibody preparation. The non-reduced antibody migrates predominantly near 150 kDa, while reduction produces heavy- and light-chain bands near 50 kDa and 25 kDa, respectively. This Wehi-CAM-1 Antibody is also known as clone 1H4.

Description

ICAM-1 Antibody W-CAM-1 / Wehi-CAM-1 Antibody recognizes intercellular adhesion molecule 1 (ICAM1), a cell-surface glycoprotein and member of the immunoglobulin superfamily. Also known as ICAM-1 and CD54, ICAM1 contains five extracellular immunoglobulin-like domains, a transmembrane region, and a cytoplasmic domain. It functions as an adhesion molecule that facilitates interactions among leukocytes, endothelial cells, and other cell types involved in immune surveillance and inflammatory responses.

ICAM1 is an important ligand for LFA-1, the CD11a/CD18 integrin expressed by leukocytes. ICAM1-LFA-1 interactions promote firm leukocyte adhesion and contribute to migration across vascular endothelium. ICAM1 also binds Mac-1, composed of CD11b and CD18, and participates in stable contacts between lymphocytes and antigen-presenting cells. These interactions place ICAM1 at an important junction between cell adhesion, leukocyte trafficking, and immune activation.

W-CAM-1 has a notable history in the ICAM1 literature. A 1988 study by Boyd and colleagues specifically identified the reagent as the Wehi-CAM-1 (W-CAM-1) monoclonal antibody and used it to investigate ICAM1 function. W-CAM-1 inhibited ICAM1-mediated cell aggregation, activated lymphocyte interactions, and T-cell adhesion to endothelial cells. The antibody also inhibited several immune processes dependent upon cell-cell contact, providing early functional evidence for the importance of ICAM1 in immune-cell adhesion. Subsequent work continued to identify the antibody as WEHI-CAM-1 or W-CAM-1 and described its generation following immunization with Raji Burkitt lymphoma cells.

ICAM1 is extensively N-glycosylated and mature protein can migrate at approximately 85-115 kDa, with variation related to cellular context and glycosylation. Clone 1H4 is also known as W-CAM-1 or Wehi-CAM-1, names that appear in the historical ICAM1 literature. Early studies using W-CAM-1 helped characterize the role of ICAM1 in cell adhesion and immune-cell interactions.

NSJ Bioreagents offers this Wehi-CAM-1 Antibody for research into ICAM1 biology and cell-cell interactions. An ICAM-1

Antibody W-CAM-1 provides a historically published monoclonal clone for investigating ICAM1-mediated adhesion, leukocyte interactions, immune responses, and related cellular processes.

For an alternative monoclonal targeting ICAM1/CD54, see our ICAM1 Antibody ICAM1/6319 / Cell Adhesion Molecule Antibody page.

Application Notes

Optimal dilution of the ICAM-1 Antibody W-CAM-1 / Wehi-CAM-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 W-CAM-1.

Storage

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

Alternate Names

ICAM1 antibody, ICAM-1 antibody, CD54 antibody, W-CAM-1 antibody, Wehi-CAM-1 antibody, WEHI-CAM-1 antibody, 1H4 antibody, Intercellular adhesion molecule 1 antibody, Major rhinovirus receptor antibody

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