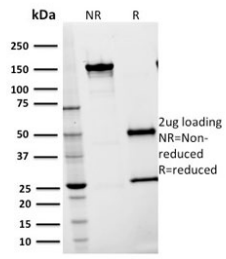
ICAM1 Antibody 15.2 / CD54 Antibody [clone 15.2] (V7851)

Catalog No.	Formulation	Size
V7851-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7851-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7851SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	15.2
Purity	Protein G affinity chromatography
UniProt	P05362
Applications	Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This ICAM1 antibody is available for research use only.



Purified ICAM1 Antibody 15.2 SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free ICAM1 Antibody clone 15.2 under reduced (R) and non-reduced (NR) conditions demonstrates the integrity of the mouse monoclonal antibody preparation. Under reducing conditions, prominent immunoglobulin heavy- and light-chain bands are visible near 50 kDa and 25 kDa, respectively, while the intact non-reduced antibody migrates near 150 kDa. The purified preparation supports the use of this highly published CD54 Antibody 15.2 clone in ICAM1 research.

Description

ICAM1 Antibody 15.2 / CD54 Antibody 15.2 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 and functions as an important mediator of cell-cell adhesion. Its interactions with leukocytes, endothelial cells, and other cell types contribute to immune surveillance, inflammatory responses, and cellular communication.

ICAM1 binds the leukocyte integrins LFA-1, composed of CD11a and CD18, and Mac-1, composed of CD11b and CD18. These interactions promote firm leukocyte adhesion and contribute to migration of immune cells across vascular endothelium. ICAM1-LFA-1 binding can also stabilize interactions between lymphocytes and antigen-presenting cells, supporting antigen-specific immune responses. ICAM1 additionally interacts with other cellular and microbial ligands, reflecting the diverse biological roles of its extracellular domains.

Expression of ICAM1 can increase substantially following exposure to inflammatory cytokines and other stimuli. This inducible expression facilitates leukocyte recruitment to sites of inflammation and has made ICAM1 an important target in studies of immune activation, vascular biology, inflammatory disease, and cancer. ICAM1 also serves as a receptor for major-group human rhinoviruses and has been investigated in additional host-pathogen interactions.

ICAM1 is extensively N-glycosylated, with mature protein commonly detected at approximately 85-115 kDa depending on cell type and glycosylation state. Clone 15.2 is a mouse monoclonal antibody generated using human monocytes as the immunogen. The clone has a substantial history of use in the scientific literature, with more than 100 publications associated with clone 15.2 across external antibody catalogs. This publication history makes the clone particularly relevant to researchers seeking an established ICAM1/CD54 monoclonal reagent.

NSJ Bioreagents offers this CD54 Antibody 15.2 for research into ICAM1 expression and cell adhesion biology. An ICAM1 Antibody 15.2 provides a highly published clone for investigating leukocyte adhesion, immune cell trafficking, inflammation, vascular biology, and related ICAM1-mediated 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 ICAM1 antibody should be determined by the researcher.

Immunogen

Human monocytes were used as the immunogen for the ICAM1 antibody.

Storage

Store the ICAM1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

ICAM1 antibody, ICAM-1 antibody, CD54 antibody, Intercellular adhesion molecule 1 antibody, Intercellular adhesion molecule-1 antibody, LFA-1 ligand antibody, Major rhinovirus receptor antibody

Copyright © NSJ Bioreagents. All rights reserved.