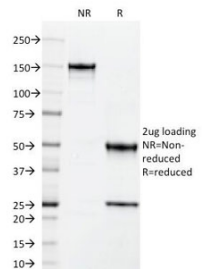
ICAM-3 Antibody 101-1D2 / ICAM3 D2 Domain Antibody [clone 101-1D2] (V2607)

Catalog No.	Formulation	Size
V2607-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2607-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2607SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Citations (7)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	101-1D2
Purity	Protein G affinity chromatography
UniProt	P32942
Localization	Membrane, cytoplasm
Applications	Flow cytometry: 0.5-1ug/10^6 cells Immunofluorescence: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This ICAM-3 Antibody 101-1D2 / ICAM3 D2 Domain Antibody is available for research use only.



Purified ICAM-3 Antibody 101-1D2 SDS-PAGE. SDS-PAGE analysis of purified, BSA-free ICAM-3 Antibody, clone 101-1D2, under non-reducing and reducing conditions. The non-reduced sample shows the intact immunoglobulin migrating near approximately 150 kDa, while reduction produces the expected antibody heavy and light chain components at approximately 50 and 25 kDa, respectively. This analysis confirms the integrity and purity of the ICAM3 D2 Domain Antibody preparation.

Description

ICAM-3 Antibody 101-1D2 / ICAM3 D2 Domain Antibody recognizes ICAM3, a leukocyte cell-surface glycoprotein also known as CD50. ICAM3 belongs to the immunoglobulin superfamily of adhesion molecules and contains five extracellular immunoglobulin-like domains followed by a transmembrane region and cytoplasmic domain. Extensive N-linked glycosylation contributes to the mature protein migrating at approximately 120 kDa, substantially above the molecular weight predicted from its amino acid sequence.

ICAM3 is constitutively expressed at relatively high levels on resting leukocytes, including T lymphocytes, and contributes to adhesive interactions between immune cells. The protein is a major ligand for lymphocyte function-associated antigen 1 (LFA-1), the CD11a/CD18 integrin. The ICAM3-LFA-1 system participates in leukocyte adhesion and the establishment of cell-cell contacts associated with immune recognition and lymphocyte activation.

The extracellular region of ICAM3 contains five immunoglobulin-like domains that provide distinct structural and functional regions for molecular interactions. Clone 101-1D2 recognizes an epitope localized within the D2 extracellular domain of ICAM3. Published epitope-mapping experiments using ICAM3 domain-deletion constructs independently localized the 101-1D2 epitope to domain 2. In those experiments, 101-1D2 did not block binding of ICAM3-bearing cells to purified LFA-1, distinguishing its D2 epitope from several domain 1 epitopes involved more directly in LFA-1 recognition.

Clone 101-1D2 is a mouse monoclonal antibody originally generated against stimulated human leukocytes. The antibody has appeared in published ICAM3 research, including studies examining ICAM3 domain organization and adhesion-molecule interactions. For example, it has been used for ICAM3 detection on primary CD4-positive T cells and Jurkat T cells by flow cytometry. This research history provides useful clone-specific differentiation from other antibodies recognizing the same protein.

NSJ Bioreagents offers this ICAM3 D2 Domain Antibody for researchers investigating CD50 expression, ICAM3 structure, and leukocyte adhesion biology. An ICAM-3 Antibody targeting a defined extracellular domain can be useful for studying ICAM3 in the context of immune-cell recognition, lymphocyte interactions, and adhesion-molecule biology.

For a recombinant monoclonal option with additional validation data, see our CD50 Antibody rICAM3/1019 / LFA-1 Ligand CD50 Antibody page.

Application Notes

Optimal dilution of the ICAM-3 Antibody 101-1D2 / ICAM3 D2 Domain Antibody should be determined by the researcher.

1. Staining of formalin/paraffin tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.

Immunogen

Stimulated human leukocytes were used as the immunogen for the ICAM-3 Antibody 101-1D2.

Storage

Store the ICAM-3 Antibody 101-1D2 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

ICAM-3 antibody, ICAM3 antibody, CD50 antibody, Intercellular adhesion molecule 3 antibody, ICAM3 D2 domain antibody, CDw50 antibody, ICAM-R antibody

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