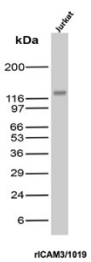
CD50 Antibody rICAM3/1019 / LFA-1 Ligand CD50 Antibody [clone rICAM3/1019] (V8497)

Catalog No.	Formulation	Size
V8497-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8497-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8497SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

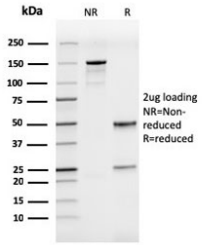
Recombinant MOUSE MONOCLONAL

Bulk quote request

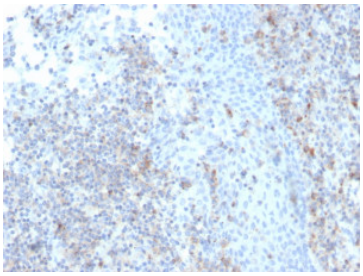
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rICAM3/1019
Purity	Protein G affinity chromatography
UniProt	P32942
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT Western Blot : 2-4ug/ml
Limitations	This CD50 Antibody rICAM3/1019 / LFA-1 Ligand CD50 Antibody is available for research use only.



CD50 Antibody rICAM3/1019 in Jurkat T Lymphocytes WB. Western blot analysis of human Jurkat T-cell lysate using CD50 Antibody, clone rICAM3/1019. A distinct high-molecular-weight band is detected at approximately 110-120 kDa, consistent with mature ICAM3/CD50. Although the unglycosylated protein has a substantially lower calculated molecular weight, CD50 is an extensively N-glycosylated cell-surface glycoprotein and is reported to migrate at approximately 120 kDa. The result demonstrates detection of endogenous LFA-1 Ligand CD50 in a human T-lymphocyte cell line.



Purified CD50 Antibody rICAM3/1019 SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free recombinant CD50 Antibody, clone rICAM3/1019, under non-reducing (NR) and reducing (R) 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 provides confirmation of the integrity and purity of the recombinant LFA-1 Ligand CD50 Antibody preparation.



CD50 Antibody rICAM3/1019 in Human Tonsil IHC. Immunohistochemistry staining of FFPE human tonsil tissue with CD50 Antibody, clone rICAM3/1019. Tissue sections underwent HIER by boiling in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling before testing. The image shows positive staining among lymphoid cells, with heterogeneous staining intensity across the tissue. This pattern is consistent with detection of the leukocyte-associated LFA-1 Ligand CD50 in human tonsil.

Description

CD50 Antibody rICAM3/1019 / LFA-1 Ligand CD50 Antibody recognizes CD50, a cell-surface adhesion protein encoded by the ICAM3 gene. Also known as ICAM-3, CD50 belongs to the immunoglobulin superfamily of intercellular adhesion molecules and contains five extracellular immunoglobulin-like domains. It is a heavily N-glycosylated transmembrane protein with an apparent molecular weight substantially greater than that predicted from its amino acid sequence.

CD50 is a major ligand for lymphocyte function-associated antigen 1 (LFA-1), the integrin composed of CD11a and CD18. Interaction between CD50 and LFA-1 contributes to leukocyte adhesion and facilitates contacts between immune cells. Unlike ICAM1, which can be strongly induced on many cell types by inflammatory stimuli, ICAM3 is constitutively expressed at relatively high levels on resting leukocytes. Its expression on lymphocytes and other leukocyte populations allows CD50 to participate in the early cellular interactions that precede and support immune activation.

CD50-LFA-1 interactions have been investigated in T-cell activation, leukocyte adhesion, immune-cell clustering, and communication between lymphocytes and antigen-presenting cells. ICAM3 can contribute to the initial formation of cellular contacts and may also participate in signaling events that increase cellular adhesiveness. These functions make CD50 relevant to studies of adaptive immunity, inflammatory responses, leukocyte biology, and mechanisms governing immune-cell interactions.

Clone rICAM3/1019 is a recombinant mouse monoclonal antibody generated using recombinant full-length human ICAM3 protein as the immunogen. It recognizes an epitope within the D1 extracellular domain of CD50. This N-terminal immunoglobulin-like domain contributes to the extracellular architecture through which ICAM3 participates in adhesion-related interactions.

NSJ Bioreagents offers this LFA-1 Ligand CD50 Antibody for research into ICAM3 expression and leukocyte adhesion biology. A CD50 Antibody can support investigation of immune-cell interactions, lymphocyte biology, cell adhesion, and mechanisms involving the ICAM3-LFA-1 adhesion system.

Explore our CD Antibodies page for additional reagents targeting CD molecules involved in immune cell recognition, adhesion, signaling, and cellular interactions.

Application Notes

Optimal dilution of the CD50 Antibody rICAM3/1019 / LFA-1 Ligand CD50 Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human ICAM3 protein was used as the immunogen for the CD50 Antibody rICAM3/1019.

Storage

Store the CD50 Antibody rICAM3/1019 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD50 antibody, ICAM3 antibody, ICAM-3 antibody, Intercellular adhesion molecule 3 antibody, LFA-1 ligand CD50 antibody, Intercellular adhesion molecule-3 antibody

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