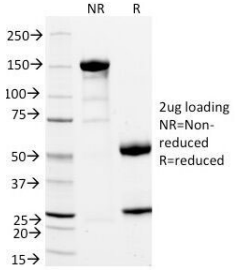
CD11 Alpha Antibody DF1524 / ITGAL Antibody [clone DF1524] (V2642)

Catalog No.	Formulation	Size
V2642-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2642-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2642SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Citations (6)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	DF1524
Purity	Protein G affinity chromatography
UniProt	P20701
Localization	Cell surface
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml
Limitations	This CD11 Alpha Antibody DF1524 / ITGAL Antibody is available for research use only.



CD11 Alpha Antibody DF1524 Purity by SDS-PAGE. SDS-PAGE analysis of purified, BSA-free CD11 Alpha Antibody DF1524 shows bands consistent with antibody heavy and light chains. The image documents the integrity of the purified ITGAL antibody preparation; it does not demonstrate binding to CD11a.

Description

CD11 Alpha Antibody DF1524 / ITGAL Antibody recognizes CD11a, the integrin alpha L protein encoded by ITGAL. CD11a associates with the beta 2 integrin subunit CD18 to form lymphocyte function-associated antigen 1 (LFA-1). This receptor helps leukocytes establish contact with other cells during immune surveillance and inflammatory responses. CD11a is the alpha chain of the receptor; LFA-1 refers to the complete CD11a/CD18 heterodimer.

LFA-1 binds intercellular adhesion molecules, including ICAM-1, ICAM-2, and ICAM-3. These interactions contribute to leukocyte attachment, movement into tissues, and contact between immune cells. Receptor activation and organization at the cell surface affect how strongly a leukocyte adheres. Consequently, CD11a expression and LFA-1 adhesive activity are related but distinct measurements. The distinction matters when interpreting experiments designed to examine either receptor abundance or cell behavior.

ITGAL is associated with leukocytes, including lymphocytes, monocytes, and granulocytes. Studying its protein product can help characterize immune cell populations and investigate how they interact with surrounding cells. CD11a also belongs to the broader CD11 family: other CD11 alpha subunits pair with CD18, but they form different beta 2 integrins with their own ligand preferences and biological roles. The ITGAL name identifies integrin alpha L specifically when several family members are under study.

Cell-to-cell adhesion is particularly important when immune cells communicate. LFA-1 can help maintain contact between a T cell and an antigen-presenting cell, supporting the close interaction required for immune signaling. It also contributes to leukocyte recruitment at sites of inflammation. These functions depend on the assembled receptor and its activation state, so detecting its CD11a subunit does not by itself establish the strength of an adhesive response.

Clone DF1524 is described as blocking LFA-1-dependent homotypic cell aggregation. That reported property may inform reagent selection for studies of cell contact, provided expression measurements and functional effects are interpreted separately. NSJ Bioreagents offers CD11 Alpha Antibody DF1524 as a distinct clone for research on the CD11a subunit and its contribution to leukocyte biology.

A CD11 Alpha Antibody DF1524 / ITGAL Antibody can support investigation of integrin alpha L in leukocyte identification, adhesion, and immune cell interactions.

See our CD11a Antibody CRIS-3 page for another monoclonal antibody targeting integrin alpha L.

Application Notes

Optimal dilution of the CD11 Alpha Antibody DF1524 / ITGAL Antibody should be determined by the researcher.

Immunogen

Human CD11a protein was used as the immunogen for the CD11 Alpha Antibody DF1524.

Storage

Store the CD11 Alpha Antibody DF1524 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD11a antibody, ITGAL antibody, integrin alpha L antibody, LFA-1 alpha chain antibody

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