



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Mouse anti CD11a, Integrin alpha-L

Catalogue number: **MUB2056P**

|                    |  |
|--------------------|--|
| Clone              | NKI (SPV)-L1   |
| Isotype            | IgG1   |
| Product Type       | Primary Antibodies   |
| Units              | 0.1mg  |
| Host               | Mouse  |
| Species reactivity | Human  |
| Application        | Flow cytometry<br>Immunocytochemistry<br>Immunoprecipitation |

### Background

Integrin alpha L (antigen CD11A, p180, lymphocyte function-associated antigen 1; alpha polypeptide), also known as ITGAL, is a human gene which functions in the immune system. It is involved in cellular adhesion and co-stimulatory signaling. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form the integrin lymphocyte function-associated antigen-1 (LFA-1), which is expressed on all leukocytes. LFA-1 is part of the family of leukocyte integrins that are recognised by their common  $\beta$ -chains (CD18) and the distinct  $\alpha$ -chain CD11a. LFA-1 is expressed on lymphocytes, monocytes and granulocytes. It is involved in recruitment of these cells to the site of infection where it binds to ICAM-1 on antigen-presenting cells and functions as an adhesion molecule. LFA-1 is the first to bind T-cells to antigen-presenting cells and initially binds weakly. A signal from the T-cell receptor and/or the cytokine receptor changes the conformation and prolongs the cell contact, allowing the T-cell to proliferate. Blocking experiments with anti-LFA monoclonal antibodies demonstrated that LFA-1 inhibits the adhesion step between effector and target cells in cytotoxic T lymphocyte, natural killer and lectin dependent cellular cytotoxicity. LFA-1 also acts as an adhesion molecule between monocytes and T-cells.

### Source

NKI (SPV)-L1 is a mouse monoclonal IgG1 antibody derived by fusion of Sp2/0 mouse myeloma cells with splenocytes from a BALB/c mouse immunized with cytotoxic T-cell clone HG-38.

## Distributors

For Purchasing Information, please contact your local distributor

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**Product**

Each vial contains 100µl 1mg/ml purified monoclonal antibody in phosphate buffered saline (PBS) containing 0.09% sodium azide.

**Applications**

The NK1 (SPV)-L1 antibody is suitable for the detection of CD11a by immunoprecipitation, immunocytochemistry, immunohistochemistry on frozen sections and by flow cytometry. Human tonsil is suitable for use as a positive control tissue. Optimal antibody dilutions for the different applications should be determined by titration.

**Specificity**

The antibody NK1 (SPV)-L1 is directed against human CD11a. The antibody is reported to inhibit the cytolytic activity of various human cytotoxic T-cell clones including HG-38 and HG-31

**Storage**

Store at 4°C, or in small aliquots at -20°C.

**References**

1. Spits H, Keizer G, Borst J, Terhorst C, Hekman A, de Vries JE. 1983 Characterization of monoclonal antibodies against cell surface molecules associated with cytotoxic activity of natural and activated killer cells and cloned CTL lines. *Hybridoma*. 2:423-37.
2. Keizer GD, Borst J, Figdor CG, Spits H, Miedema F, Terhorst C, De Vries JE. 1985 Biochemical and functional characteristics of the human leukocyte membrane antigen family LFA-1, Mo-1 and p150, 95. *Eur J Immunol*. 15:1142-8

**Caution**

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