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Mouse anti CD11a (inhibitor)

Catalogue number: **MUB0375P**

Clone	NKI(SPV)-L7
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse (Balb/c)
Species reactivity	Human
Application	Flow cytometry Immunoprecipitation

Distributors

For Purchasing Information, please contact your local distributor

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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 costimulatory signaling. ITGAL encodes the integrin alpha L chain. 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 β -chains (CD18). LFA-1 also has a distinct α -chain (CD11a). LFA-1 is expressed on lymphocytes, monocytes and granulocytes; it has been shown that LFA-1 contributes to the adhesion reaction of these cells. Blocking experiments with anti-LFA monoclonal antibodies demonstrated that LFA-1 inhibits the adhesion step effector and target cells in cytotoxic T lymphocyte, natural killer and lectin dependent cytotoxicity. LFA-1 is involved in recruitment to the site of infection. 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. The antibody was selected for inhibition of T-cell mediated killing.

Source

The antibody was obtained by immunisation of Balb/c mice with cells of the T4+T8- cytotoxic T lymphocyte clone HG-38. The antibody was selected for inhibition of T-cell mediated killing by screening of the hybridoma supernatants 10-14 days after the fusion.

Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

NKI(SPV)-L17 is useful for flow cytometry and, immunoprecipitation. Optimal antibody dilution should be determined by titration. The antibody was selected for inhibition of T-cell mediated killing.

Specificity

The monoclonal antibody SPV-L7 reacts with the alpha chain of LFA-1, the CD11a/CD18 integrin heterodimer present on Human T- and B-lymphocytes, granulocytes and monocytes.

Storage

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

References

1. Keizer G.D., J. Borst, C.G. Figdor, H. Spits, F. Miedema, C. Terhorst, J.E. de Vries. Eur. J. Immunol. 15: 1142-1147, 1985.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.