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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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Mouse anti Human HLA DQ

Catalogue number: **MUB2014P**

Clone	NKI(SPV)L3
Isotype	IgG2a
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse (Balb/c)
Species reactivity	Human Swine
Application	Flow cytometry Immunohistochemistry (frozen) Immunoprecipitation

Distributors

For Purchasing Information, please contact your local distributor

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Background

HLA-DQ (DQ) is a cell surface receptor type protein found on antigen presenting cells. DQ is an $\alpha\beta$ heterodimer of the MHC Class II type. The α and β chains are encoded by HLA-DQA1 and HLA-DQB1, respectively. These two loci are adjacent to each other on chromosome 6p21.3. Both the α -chain and β -chain vary greatly. A person often produces two α -chain and two β -chain variants and thus 4 DQ isoforms. The DQ loci are in close genetic linkage to HLA-DR but less closely linked to HLA-DP, HLA-A, HLA-B and HLA-C. DQ functions on antigen presenting cells, and is an antigen presenting molecule. Different DQ isoforms can bind to and present different antigens to T-cells. In this process T-cells are stimulated to grow and can signal B-cells to produce antibodies. DQ functions in recognizing and presenting foreign antigens (proteins derived from potential pathogens). But DQ is also involved in recognizing common self-antigens and presenting those antigens to the immune system in order to develop tolerance from a very young age. When tolerance to self proteins is lost, DQ may become involved in autoimmune disease. Two autoimmune diseases in which HLA-DQ is involved are coeliac disease and diabetes mellitus type 1. DQ is one of several antigens involved in rejection of organ transplants. As a variable cell surface receptor on immune cells, these D antigens, originally HL-A4 antigens, are involved in graft versus host disease when lymphoid tissues are transplanted between people.

Product

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

Applications

NKI(SPV)L3 is used in research and Human diagnostics, cell separation for research or clinical application. NKI(SPV)L3 is useful for immunoprecipitation, flow cytometry and immunohistochemistry on frozen sections. Optimal antibody dilution should be determined by titration.

Specificity

NKI(SPV)L3 reacts with a monomorphic determinant on HLA-DQ (MHC class II).

Storage

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

References

1. Spits H., G. Keizer, J. Borst, C. Terhorst, A. Hekman and J.E. de Vries. Characterization of monoclonal antibodies anti cell surface molecules associated with cytotoxic activity of natural and activated killer cells and cloned CTL lines. *Hybridoma* 1983, 4: 423-437.
2. Spits H., J. Borst, M. Giphart, J. Coligan, C. Terhorst and J.E. de Vries. HLA-DC antigens can serve as recognition elements for Human cytotoxic T lymphocytes. *Eur. J. Immunol.* 1984, 14: 299.
3. A.A. te Velde, J.P.G. Klomp, B.A. Yard, J.E. de Vries, C.G. Figdor. Modulation of phenotypic and functional properties of Human peripheral blood monocytes by IL-4. *J. of Immunol.* 1988, 140: 1548-1554.

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.