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## **Biotinylated Monoclonal Antibody To Human HLA-DQ Marker for MHC class II**

Monoclonal antibody FN81 recognizes the HLA-DQ antigen, an HLA class II antigen with homology to murine H-2A. HLA class II antigens are mainly expressed on specialized antigen presenting cells (APCs), dendritic cells, B-cells and macrophages. HLA class II antigen is presented on activated T-cells. HLA class II molecules present exogenously derived antigen to the T-cell receptor (TCR) on CD4<sup>+</sup> T lymphocytes. Both chains in HLA-DQ are polymorphic. HLA-DQ is expressed after DR and DP during haematopoietic progenitor cell development. It is strongly expressed in the thymic cortex.

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| <b>Product Number:</b>        | T-1375 (Lot 01PB1004)   |
| <b>Clone:</b>                 | FN81  |
| <b>Host species, isotype:</b> | Mouse IgG2a   |
| <b>Quantity:</b>              | 100µg   |
| <b>Format:</b>                | Affinity purified, biotinylated, lyophilized<br><br>Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA), and 0.05% Kathon as a preservative.   |
| <b>Stability:</b>             | Original vial: 1 year at 4° - 8°C<br><br>Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.  |
| <b>Applications:</b>          | Tested for immunohistochemistry (IHC); has been described to work in FACS.<br><br><b>Approximate working dilution for IHC:</b><br>Frozen sections: ≤0.05µg/ml (1:4000)<br>Paraffin sections: not tested<br><br>Optimal dilutions should be determined by the end user.<br>Suggested positive control: Human tonsil.<br><br>Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information. |
| <b>Immunogen:</b>             | Stimulated human B lymphocytes  |
| <b>Antigen, epitope:</b>      | The antigen is HLA-DQ. The epitope has not been further characterized.  |

**Antigen distribution:** **Isolated cells:** The HLA DQ antigen is present on approximately 10% of peripheral blood lymphocytes.

**Specificity:** **Human:** HLA-DQ  
**Other:** not tested.

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### **Selected references**

Barclay, Brown et al., The Leukocyte Antigen FactsBook, 2nd edition, Harcourt Brace & Company, London, (1997)

Guy, K. et al., (1982). Differential expression and serologically distinct subpopulations of human Ia antigens detected with monoclonal antibodies to Ia alpha and beta chains. Eur. J. Immunol. 12, 942-948.

Symington, F. W. et al., (1985). Differential Ia antigen expression by autologous human erythroid and B lymphoblastoid cell lines. J. Immunol. 135, 1026-1032.

Ishikura, H., Ishikawa, N., Aizawa, M. (1987). Differential expression of HLA-class II antigens in the human thymus. Transplantation 44, 314-317

For *in vitro* research only. This product contains Kathon.