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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 $CD4^+$ T lymphocytes. Both chains in HLA-DQ are polymorphic. HLA-DQ is expressed after DR and DP during haemotopoietic progenitor cell development. It is strongly expressed in the thymic cortex.

Product Number:	T-1375 (Lot 01PB1004)
Clone:	FN81
Host species, isotype:	Mouse IgG2a
Quantity:	100µg
Format:	Affinity purified, biotinylated, lyophilized
	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.
Stability:	Original vial: 1 year at 4° - 8°C
	Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in FACS.
	Approximate working dilution for IHC: Frozen sections: ≤0.05µg/ml (1:4000) Paraffin sections: not tested
	Optimal dilutions should be determined by the end user.
	Suggested positive control: Human tonsil.
	Please see **www.bma.ch** for protocols and general information.
Immunogen:	Stimulated human B lymphocytes
Antigen, epitope:	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.

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. Tranplantation 44, 314-317

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