



**BMA BIOMEDICALS**

BMA BIOMEDICALS  
Rheinstrasse 28-32  
CH-4302 Augst (Switzerland)  
Phone: ++41 61 811 6222  
Fax: ++41 61 811 6006  
info@bma.ch  
www.bma.ch

---

## **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.

---

<b>Product Number:</b>	T-1360 (Lot 01PO0801)
<b>Clone:</b>	FN81
<b>Host species, isotype:</b>	Mouse IgG2a
<b>Quantity:</b>	100µg
<b>Format:</b>	Affinity purified, 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 0.09% sodium azide as a preservative.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C  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.  <b>Approximate working dilution for IHC:</b> Frozen sections: ≤0.2µg/ml (1:1000) Paraffin sections: not tested  Optimal dilutions should be determined by the end user. Suggested positive control: Human tonsil.  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.

---

### **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. Caution: this product contains sodium azide, a poisonous and hazardous substance.