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## **Monoclonal Antibody to Human MHC class II Major Histocompatibility Complex Class II**

Monoclonal antibody 910/D7 recognises an epitope on the non-polymorphic part of the bimolecular complex of HLA-DR antigens (34kD, 28kD).

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<b>Product Number:</b>	T-1204 (Lot 01PO9202)
<b>Clone:</b>	910/D7
<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), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.02% 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 reported to work in FACS and Western Blots (native).  <b>Approximate working dilution for IHC:</b> Frozen sections: 0.5 - 1µg/ml (1:200 - 1:400) Paraffin sections: 4µg/ml (1:50); Proteinase K pretreatment for antigen retrieval is recommended.  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>	Purified human monocytes.
<b>Antigen, epitope:</b>	The antigen is MHC class II, the epitope is in the non-polymorphic part.

**Antigen distribution:**

**Isolated cells:** The antigen is found on peripheral blood lymphocytes, monocytes and on activated T-Lymphocytes (malignant B-cell lymphomas stain positive). The antigen is not expressed on non-activated T-lymphocytes or granulocytes. The 910/D7 antigen is found on B-lymphocytes and macrophages in B- and T- cell areas. A strong reaction can be observed on Langerhans cells and in cases of cutaneous histiocytosis X. Epithelial cells may stain positive upon antigen challenge.

**Specificity:**

**Human:** HLA-DR.

**Other species:** negative with mouse, others not tested.

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**Selected references**

Sorg, C. et al.: A monoclonal antibody to a formaldehyde-resistant epitope on the polymorphic Constant Region of the HLA-DR antigen. *Transplantation*: 39, 90 - 93, (1985).

Petzsch, M. et al.: Biological Characterisation of Human Bone Tumors. *J. Cancer Res. & Clin. Oncol.*: 112, 144 - 150 ( 1986).

Zwadlo, G. et al.: A monoclonal antibody to a subset of human monocytes found only in the peripheral blood and inflammatory tissues. *J. Immunol.*: 137(2), 512 - 518, (1986).

Mues, B. et al.: Phenotypic Characterisation of Macrophages in human term placenta. *Immunology*, 67, 303 - 307, (1989).

For in vitro research only. Caution: this product contains sodium azide, a poisonous and hazardous substance.