



Peninsula Laboratories, LLC

A Member of the Bachem Group

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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).

Product Number:	T-1204
Clone:	910/D7
Host species, isotype:	Mouse IgG2a
Quantity:	100µg
Format:	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.
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 reported to work in FACS and Western Blots (native). Approximate working dilution for IHC: 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.
Immunogen:	Purified human monocytes.
Antigen, epitope:	The antigen is MHC class II, the epitope is in the non-polymorphic part.



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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.

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.