

SM3112B**Monoclonal Antibody to HLA Class II DR + DP - Biotin**

Alternate names:	DP, DP, HLA class II histocompatibility antigen DR, HLA-DP, HLA-DR, MHC class II antigen DR
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10B (for use in human samples)
Clone:	MEM-136
Immunogen:	PHA-activated peripheral blood lymphocytes
Format:	State: Liquid purified Ig fraction Buffer System: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 Label: Biotin – Conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Applications:	Indirect immunofluorescence analysis by Flow Cytometry: 1:400 as starting point. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes common epitope on beta-chain of human HLA-DR and HLA-DP. It reacts with alpha/beta dimer as well as with dissociated beta-subunit. DR and DP are the isotypes of human MHC Class II molecules expressed on antigen-presenting cells (APC; dendritic cells, B lymphocytes, monocytes, macrophages).
Species Reactivity:	Tested: Human
Storage:	Store the antibody undiluted at 2 - 8 °C. DO NOT FREEZE! Shelf life: one year from despatch.
General Readings:	1. Koch C, Staffler G, Hüttinger R, Hilgert I, Prager E, Cerný J, et al. T cell activation-associated epitopes of CD147 in regulation of the T cell response, and their definition by antibody affinity and antigen density. <i>Int Immunol.</i> 1999 May;11(5):777-86. PubMed PMID: 10330283.

Pictures:

Western Blotting analysis of MHC Class II in whole cell lysate of RAJI human Burkitt lymphoma cell line using anti-human HLA-DR+DP (MEM-136). The antibody MEM-136 recognizes β -chain of HLA-DR antigen under non-reducing conditions. Lane 1: immunostaining with anti-human HLA-DR+DP (MEM-136)
Lane 2: immunostaining with Isotype mouse IgG1 control

