

**SM3112APC****Monoclonal Antibody to HLA Class II DR + DP - APC**

<b>Alternate names:</b>	DP, DP, HLA class II histocompatibility antigen DR, HLA-DP, HLA-DR, MHC class II antigen DR
<b>Quantity:</b>	100 Tests
<b>Background:</b>	DR and DP are the isotypes of human MHC Class II molecules expressed on antigen-presenting cells (APC; dendritic cells, B lymphocytes, monocytes, macrophages).
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10APC (for use in human samples)
<b>Clone:</b>	MEM-136
<b>Immunogen:</b>	PHA-activated peripheral blood lymphocytes
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Size-Exclusion Chromatography <b>Buffer System:</b> Phosphate buffered saline (PBS) solution containing 15mM sodium azide <b>Label:</b> APC – Conjugated to Allophycocyanin under optimum conditions
<b>Applications:</b>	<b>Flow Cytometry:</b> 10 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	The antibody MEM-136 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). <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General Readings:</b>	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  $\beta$ -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

