



PB-474-T100

## Monoclonal Antibody to HLA-DR Pacific Blue™ conjugated (100 tests)

|                             |  |
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| <b>Clone:</b>               | MEM-12   |
| <b>Isotype:</b>             | Mouse IgG1   |
| <b>Specificity:</b>         | The antibody MEM-12 recognizes common epitope on human HLA-DR which is dependent on the association of alpha and beta chains. DR is the isotype of human MHC Class II molecules expressed on antigen-presenting cells (APC; dendritic cells, B lymphocytes, monocytes, macrophages).                                 |
| <b>Regulatory Status:</b>   | RUO  |
| <b>Immunogen:</b>           | thymocyte membrane   |
| <b>Species Reactivity:</b>  | Human  |
| <b>Preparation:</b>         | The purified antibody is conjugated with Pacific Blue under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.  |
| <b>Storage Buffer:</b>      | The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.  |
| <b>Storage / Stability:</b> | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.  |
| <b>Usage:</b>               | The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension.<br>The content of a vial (0.4 ml) is sufficient for 100 tests.   |
| <b>Expiration:</b>          | See vial label   |
| <b>Lot Number:</b>          | See vial label   |
| <b>Background:</b>          | HLA-DR, a member of MHC class II glycoproteins, that bind intracellularly processed peptides and present them to the Th cells, is composed of 36 kDa alpha chain and 27 kDa beta chain, both anchored in the plasma membrane. Together with other MHC II molecules HLA-DR plays a central role in the immune system. |
| <b>References:</b>          | *Horejsi V, Nemeč M, Angelisova P, Kristofova H, Gorga JC, Hilgert I: Characterization of seven new monoclonal antibodies against human DR, DR + DP and DQ1 + DQ3 antigens. Tissue Antigens. 1986 Nov;28(5):288-97.  |

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