



Magic[™] Anti-HLA-DR monoclonal antibody, clone BB4 [RPE] (DMAB5245)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Anti-HumanHLA-DR Antigen reacts with the DRw52 determinant of the HLA-DR molecule. Thespecificity has been tested with transfectants expressing HLA-DRw52.Anti-Human HLA-DR Antigen, does not react with transfectants expressingHLA-DP antigen and HLA-DQ antigen. The antibody has been submitted to the 8thInternational Workshop on Human Leucocyte Differentiation Antigens 2000-2004.
Immunogen	B cells from a follicular lymphoma.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	BB4
Conjugate	PE
Format	liquidform in buffer containing 1% bovine serum albumin (BSA) and 15 mmol/L NaN3,pH 7.2.
Preservative	15mmol/L Sodium Azide
Storage	Store in the dark at 2°C-8°C. Do not use after expiration datestamped on vial. If reagents are stored under any conditions other than thosespecified, the conditions must be verified by the user. There are no obvioussigns to indicate instability of this pr

BACKGROUND

Introduction The mainfunction of human leucocyte antigen (HLA) molecules is to present antigenicpeptides

45-1 Ramsey Road, Shirley, NY 11967, USA

Email: info@creative-diagnostics.com

Tel: 1-631-624-4882 Fax: 1-631-938-8221

to the T-cell receptor, thereby regulating the induction of theimmune response. The HLA molecules are encoded by a cluster of tightly linkedgenes located on the short arm of chromosome 6. Three classes of HLAmolecules (I, II and III) have been denoted. Human class II genes are locatedin the HLA-D region, consisting of three families called DQ, DP and DR. Theproducts of class II genes form a heterodimeric transmembrane protein,consisting of a heavy (~34 kDa) α-chain and a light (~28 kDa) β-chain. The DRα-chain is expressed from one non-polymorphic gene, whereas the DR β-chainoriginates from nine highly polymorphic genes. HLA-DR antigen isconstitutively expressed on antigen-presenting cells, such as B lymphocytes,monocytes and dendritic cells but can also be detected on activated Tlymphocytes and activated granulocytes. Occasionally, natural killer cellsexpress HLA-DR antigen. The antigen has been found expressed in cases ofdifferent types of acute lymphoblastic leukaemias, acute myeloid leukaemiasexcept AML-M3, chronic lymphoblastic leukaemias, chronic myeloid leukaemiasand B- and T-cell non-Hodgkin's leukaemias. However, the antigen is normallynotpresenton non-haematopoietic tumours and multiple myelomas.

Keywords

DR alphachain precursor; DRB1; DRB4; HLA class II histocompatibility antigen; HLAclass II histocompatibility antigen DR alpha chain; HLA DR1B; HLA DR3B; HLADRA; HLA DRA1; HLA DRB1; HLA DRB3; HLA DRB4; HLA DRB5; HLADR4B; HLADRA1; HLADRB;Major histocompatib