Datasheet: MCA71PE

Description: RAT ANTI HUMAN HLA DR:RPE
Specificity: HLA DR
Format: RPE
Product Type: Monoclonal Antibody
Clone: YE2/36-HLK
Isotype: IgG2a
Quantity: 100 TESTS

Product Details

Applications
This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Neat</td>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species
Human

Product Form
Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution
Reconstitute with 1.0 ml distilled water

Max Ex/Em
<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tr>
<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
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Preparation
Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution
Phosphate buffered saline

Preservative Stabilisers
0.09% Sodium Azide
1% Bovine Serum Albumin
5% Sucrose

Immunogen
EHR-B Ramos cells.

Fusion Partners
Spleen cells from immunised AO rats were fused with cells of the rat Y3 Ag1.2.3 myeloma cell line.

Specificity
Rat anti Human HLA DR antibody, clone YE2/36-HLK recognizes a monomorphic determinant of human HLA DR which is an MHC class II cell surface receptor expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages and activated T lymphocytes.
The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In humans, this complex is referred to as the human leukocyte antigen (HLA) region. There are 3 major MHC class II proteins encoded by the HLA which are HLA DP, HLA DQ and HLA DR.

Rat anti Human HLA DR antibody, clone YE2/36-HLK has also been reported to be cross reactive with mouse H-2 haplotypes b, d and q expressed by mouse strains including C57BL/6, DBA, and NZB (Brickell, P.M. et al. 1981).

Flow Cytometry
Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

References
Storage
Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

This product should be stored undiluted.

DO NOT FREEZE. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life
12 months from date of reconstitution.

Health And Safety Information

Regulatory
For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:RPE (MCA6005PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)