Datasheet: MCA71R

Description: RAT ANTI HUMAN HLA DR
Specificity: HLA DR
Format: Purified
Product Type: Monoclonal Antibody
Clone: YE2/36-HLK
Isotype: IgG2a
Quantity: 0.25 mg

Product Details

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.

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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>Immunohistology - Frozen</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.

(1) PLP fixation is recommended for optimal results, see Whiteland et al. for details

Target Species: Human

Product Form: Purified IgG - liquid

Preparation: Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: 0.09% Sodium Azide

Carrier Free: Yes

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Immunogen: EHR-B Ramos cells.
Spleen cells from immunised AO rats were fused with cells of the rat Y3 Ag1.2.3 myeloma cell line.

**Fusion Partners**

**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 et al. 1981).

**Flow Cytometry**

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

**References**

15. Klotz, B. et al. (2012) 1,25-Dihydroxyvitamin D3 Treatment Delays Cellular Aging in Human


**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Rabbit Anti Rat IgG (STAR17...)
- Goat Anti Rat IgG (STAR69...)
- Goat Anti Rat IgG (STAR131...)
- Goat Anti Rat IgG (STAR73...)
- Rabbit Anti Rat IgG (STAR21...)
- Goat Anti Rat IgG (STAR72...)
- Rabbit Anti Rat IgG (STAR16...)
- Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)

**Recommended fluorophores**

- FITC
- Aik. Phos., Biotin
- RPE
- HRP
- DyLight®800
- DyLight®649, DyLight®800

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