Datasheet: MCA46R

Description: MOUSE ANTI RAT MHC CLASS II RT1B
Specificity: MHC CLASS II RT1B
Format: Purified
Product Type: Monoclonal Antibody
Clone: OX-6
Isotype: IgG1
Quantity: 0.25 mg

Product Details

Applications

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
<td></td>
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<tr>
<td>Immunohistology - Paraffin(1)</td>
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<tr>
<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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<tr>
<td>Immunofluorescence</td>
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Suggested Dilution: 1/50 - 1/100

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose. PLP fixation is recommended for optimal results.

Target Species: Rat

Species Cross Reactivity: Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species.

Product Form: Purified IgG - liquid

Preparation: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: 0.09% Sodium Azide

Approx. Protein: IgG concentration 1.0 mg/ml
Concentrations

Immunogen  Rat thymocyte membrane glycoproteins

Fusion Partners  Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.

Specificity  
Mouse anti Rat MHC Class II RT1B antibody, clone OX-6 recognizes a monomorphic determinant of the rat RT1B MHC class II antigen present on B lymphocytes, dendritic cells, some macrophages and certain epithelial cells.

Rat MHC Class II RT1B antibody, clone OX-6 does not react with the rat BDIX strain due to a defect in RT1B expression (Male et al. 1987).

The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In rats, this complex is referred to as the RT1 region. In mice, this complex is referred to as the H-2 region.

Mouse anti Rat MHC Class II RT1B antibody, clone OX-6 also cross reacts with a polymorphic determinant on mouse strains of the H-2 haplotypes k and s. Analysis of recombinant mouse strains has mapped the OX-6 determinant to the H-21-A region (McMaster and Williams 1979 and Male et al. 1987).

This product is routinely tested in flow cytometry on rat splenocytes.

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

References


### Storage

<table>
<thead>
<tr>
<th>Storage</th>
<th>Store at +4°C or at -20°C if preferred.</th>
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<tbody>
<tr>
<td></td>
<td>This product should be stored undiluted.</td>
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<td></td>
<td>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.</td>
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### Shelf Life

<table>
<thead>
<tr>
<th>Shelf Life</th>
<th>18 months from date of despatch.</th>
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### Health And Safety Information

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### Regulatory

<table>
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<tr>
<th>Regulatory</th>
<th>For research purposes only</th>
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### Related Products

#### Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR8...)
- Goat Anti Mouse IgG (STAR76...)
- Goat Anti Mouse IgG (STAR77...)
- Rabbit Anti Mouse IgG (STAR9...)
- Goat Anti Mouse IgG IgA IgM (STAR87...)
- Rabbit Anti Mouse IgG (STAR12...)
- Rabbit Anti Mouse IgG (STAR13...)
- HuCAL Anti Mouse IgG1 (HCA036...)
- Goat Anti Mouse IgG (Fc) (STAR120...)
- Goat Anti Mouse IgG (STAR70...)
- Goat Anti Mouse IgG (H/L) (STAR117...)

<table>
<thead>
<tr>
<th>Recommended Secondary Antibodies</th>
<th>DyLight®800</th>
<th>RPE</th>
<th>HRP</th>
<th>FITC</th>
<th>Alk. Phos., HRP</th>
<th>DyLight®488, DyLight®549, DyLight®649, DyLight®800, FITC, HRP</th>
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