Datasheet: MCA51G
BATCH NUMBER 166780

**Product Details**

**Description:** MOUSE ANTI RAT MHC CLASS I RT1A

**Specificity:** MHC CLASS I RT1A

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** OX-18

**Isotype:** IgG1

**Quantity:** 1 mg

**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>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td>-</td>
<td></td>
<td>1/50 - 1/100</td>
</tr>
<tr>
<td>Immunohistology - Frozen (1)</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
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<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
<td>-</td>
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<tr>
<td>ELISA</td>
<td></td>
<td>-</td>
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<tr>
<td>Immunoprecipitation</td>
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<td>-</td>
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<td>Western Blotting</td>
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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) The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

**Target Species**

Rat

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline
Preservative  
Stabilisers  

<table>
<thead>
<tr>
<th>Preservative Stabilisers</th>
<th>0.09% Sodium Azide</th>
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Carrier Free  

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Approx. Protein Concentrations  

<table>
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<tr>
<th>Approx. Protein Concentrations</th>
<th>IgG concentration 1.0 mg/ml</th>
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Immunogen  

<table>
<thead>
<tr>
<th>Immunogen</th>
<th>Rat spleen cell glycoproteins</th>
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RRID  

<table>
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<th>RRID</th>
<th>AB_322393</th>
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Fusion Partners  

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<tr>
<th>Fusion Partners</th>
<th>Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3X63Ag8.653 myeloma cell line.</th>
</tr>
</thead>
</table>

Specificity  

Mouse anti Rat MHC Class I RT1A antibody, clone OX-18 recognizes a monomorphic determinant of rat MHC Class I (RT1A), expressed by all rat strains. However, quantitative measurements suggest that not all of the class I molecules are recognized.

Mouse anti Rat MHC Class I RT1A antibody, clone OX-18 has been used in immunoaffinity purification of rat MHC class I molecules (Fukumoto et al. 1982).

Mouse anti Rat MHC Class I RT1A antibody, clone OX-18 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.

Immunohistology  

Acetone fixation recommended - the antigen is sensitive to fixation with paraformaldehyde.

References  

8. Edamura, M. et al. (2014) Functional deficiency of MHC class I enhances LTP and...
abolishes LTD in the nucleus accumbens of mice. PLoS One. 9 (9): e107099.
Presentation by HLA Class I on Anterior Pituitary Cells [1].


Presentation by HLA Class I on Anterior Pituitary Cells. [2]

**Storage**
This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

**Guarantee**
12 months from date of despatch

**Health And Safety Information**
Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA51G

10040

**Regulatory**
For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG (STAR77...) **HRP**
- Rabbit Anti Mouse IgG (STAR12...) **RPE**
- Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos., HRP**
- Goat Anti Mouse IgG (STAR76...) **RPE**
- Rabbit Anti Mouse IgG (STAR13...) **HRP**
- Goat Anti Mouse IgG (STAR70...) **FITC**
- Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP**
- Rabbit Anti Mouse IgG (STAR9...) **FITC**
- Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**

**Recommended Negative Controls**

- MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

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