### 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](http://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>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
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<tr>
<td>ELISA</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td>✔</td>
<td></td>
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</tbody>
</table>

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 G from tissue culture supernatant

#### Buffer Solution
Phosphate buffered saline
<table>
<thead>
<tr>
<th>Preservative Stabilisers</th>
<th>0.09% Sodium Azide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carrier Free</td>
<td>Yes</td>
</tr>
<tr>
<td>Approx. Protein Concentrations</td>
<td>IgG concentration 1.0 mg/ml</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Rat spleen cell glycoproteins</td>
</tr>
<tr>
<td>RRID</td>
<td>AB_322393</td>
</tr>
<tr>
<td>Fusion Partners</td>
<td>Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3X63Ag8.653 myeloma cell line.</td>
</tr>
</tbody>
</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.


**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**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG (STAR77...) 
  - HRP
- Rabbit Anti Mouse IgG (STAR12...) 
  - RPE
- Rabbit Anti Mouse IgG (STAR8...) 
  - DyLight®800
- Goat Anti Mouse IgG (STAR76...) 
  - RPE
- Rabbit Anti Mouse IgG (STAR9...) 
  - FITC
- Goat Anti Mouse IgG (Fc) (STAR120...) 
  - FITC, HRP
- Goat Anti Mouse IgG IgA IgM (STAR87...) 
  - Alk. Phos., HRP
- Rabbit Anti Mouse IgG (STAR13...) 
  - HRP
- Goat Anti Mouse IgG (H/L) (STAR117...) 
  - Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP
- Goat Anti Mouse IgG (STAR70...) 
  - FITC

**Recommended Negative Controls**

- MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

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