## Product Details

<table>
<thead>
<tr>
<th>Description</th>
<th>MOUSE ANTI RAT TCR ALPHA/BETA:Low Endotoxin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>TCR ALPHA/BETA</td>
</tr>
<tr>
<td>Format</td>
<td>Low Endotoxin</td>
</tr>
<tr>
<td>Product Type</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>R73</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.5 mg</td>
</tr>
</tbody>
</table>

### RRID

AB_322435

### 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</td>
<td>•</td>
<td></td>
<td></td>
<td>1/10 - 1/100</td>
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<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ELISA</td>
<td>•</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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<tr>
<td>Functional Assays</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.

### Target Species

Rat

### Species Cross Reactivity

Reacts with: Monkey, Cynomolgus monkey

**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

None present

### Carrier Free

Yes

### Approx. Protein

IgG concentration 1.0 mg/ml
Concentrations

Immunogen
Rat T Blasts and Erythrocytes.

Fusion Partners
Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.

Specificity
Mouse anti Rat TCR alpha/beta antibody, clone R73 recognizes a constant determinant on the beta chain of the rat alpha/beta T cell receptor, expressed by 97% of peripheral rat T cells as defined by the OX-52 marker. R73 is mitogenic for unseparated spleen cells and for purified T cells. In the rat thymus, mature medullary cells express the R73 determinant at the same levels as peripheral T cells, whereas 94% of CD4 - CD8 - thymocytes are R73 negative.

Mouse anti Rat TCR alpha/beta antibody, clone R73 is reported to stimulate adhesion between Thymic Dendritic Cells and Thymocytes (Colić et al. 2010).

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

References


**Storage**

Store at -20° only.

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.

**Guarantee**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Recommended Products**

**Recommended Secondary Antibodies**

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

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin (MCA1209EL)**