**Datasheet: MCA02A647**

**Description:** MOUSE ANTI MOUSE CD90:Alexa Fluor® 647

**Specificity:** CD90

**Other names:** THY1

**Format:** ALEXA FLUOR® 647

**Product Type:** Monoclonal Antibody

**Clone:** F7D5

**Isotype:** IgM

**Quantity:** 100 TESTS/1ml

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### 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>
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<td>Neat</td>
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</table>

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.

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### Target Species

Mouse

### Product Form

IgM fraction conjugated to Alexa Fluor 647 - liquid

### Max Ex/Em

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexa Fluor®647</td>
<td>650</td>
<td>665</td>
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</tbody>
</table>

### Preparation

IgM fraction prepared by ammonium sulfate precipitation

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

- 0.09% Sodium Azide (NaN₃)
- 1% Bovine Serum Albumin

### Approx. Protein Concentrations

Ig concentration 0.05 mg/ml

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### External Database Links

**UniProt:**

- [P01831](http://www.uniprot.org/uniprot/P01831)  
  Related reagents

**Entrez Gene:**

  Thy1  
  Related reagents
Synonyms
Thy-1

Fusion Partners
Spleen cells from immunised AKR mice were fused with cells of the mouse NS-1 myeloma cell line.

Specificity
Mouse anti Mouse CD90 antibody, clone F7D5 recognizes the mouse Thy1.2 alloantigen, also known as CD90.2, which is expressed by thymocytes and peripheral T lymphocytes. Clone F7D5 reacts with Thy1.2 mice such as CBA and BALB/C, but not with Thy1.1 mice eg. AKR and FUB.

The antibody is particularly useful for removal of T lymphocytes from cell populations by complement mediated cytotoxicity (Lake et al., 1979).

Mouse anti Mouse CD90 antibody, clone F7D5 is routinely tested in flow cytometry using mouse thymocytes.

Flow Cytometry
Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul

References


### Storage
Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

### Shelf Life
18 months from date of despatch

### Acknowledgements
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### Health And Safety Information

### Regulatory
For research purposes only

### Related Products

#### Recommended Useful Reagents

- MOUSE SEROBLOCK FcR (BUF041A)
- MOUSE SEROBLOCK FcR (BUF041B)