

Datasheet: MCA47FT

| Description: | MOUSE ANTI RAT CD90:FITC |
|----------------------|--------------------------|
| Specificity: | CD90 |
| Other names: | THY1 |
| Format: | FITC |
| Product Type: | Monoclonal Antibody |
| Clone: | OX-7 |
| Isotype: | lgG1 |
| Quantity: | 0.1 mg |

Product Details

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.

| | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | - | | | Neat - 1/10 |

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 | Reacts with: Rab | bit, Mouse, Guinea Pig | | |
| Reactivity | N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications of personal communications from the originators. Please refer to references indicated further information. | | | eviewed publications or |
| Product Form | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid | | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm |)) |
| | FITC | 490 | 525 | |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant | | | |
| | | | | |

| Preservative | 0.09% Sodium Azide | | |
|-----------------------------------|---|--|--|
| Stabilisers | 1% Bovine Serum Albumin | | |
| Approx. Protein Concentrations | IgG concentration 0.1 mg/ml | | |
| Immunogen | Rat Thy1 antigen. | | |
| External Database | | | |
| Links | UniProt: | | |
| | P01830 Related reagents | | |
| | Entrez Gene: | | |
| | 24832 Thy1 Related reagents | | |
| | | | |
| Synonyms | Thy-1 | | |
| RRID | AB_322583 | | |
| Fusion Partners | Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line. | | |
| Specificity | Mouse anti Rat CD90 antibody, clone OX-7 recognizes rat and CD90, also known as Thy1.1, a GPI-anchored membrane protein containing a single V type Ig-like domain CD90 is expressed on a variety of cell types including thymocytes, neuronal cells, stem cells, immature B cells and connective tissues, CD90 is also expressed in T cells in mice. Since Thy1.1 is a monomorphic determinant in rat but polymorphic in mice, clone MRC OX-7 reacts with Thy1.1 mice e.g. AKR and FVB, but not Thy1.2 mice such as CBA and BALB/c. The affinity of the Fab' of MRC OX-7 for rat Thy1 is 3 x 10 ⁹ m-1 and for mouse Thy1.1 is 3 x 10 ⁸ m-1(1). Mouse anti rat CD90, clone MRC OX-7 has been demonstrated to promote neurite outgrowths on peripherin-stained sympathetic rat neurons, using fluorescence microscopy (Jeng et al. 1998). Clone OX-7 has also been reported to induce glomerular nephritis in Wistar rats (Tamura et al. 1996). | | |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. | | |
| References | Mason, D.W. & Williams, A.F. (1980) The kinetics of antibody binding to membrane antigens in solution and at the cell surface. <u>Biochem J. 187 (1): 1-20.</u> Campbell, D.G. <i>et al.</i> (1981) Rat brain Thy-1 glycoprotein. The amino acid sequence, disulphide bonds and an unusual hydrophobic region. <u>Biochem J. 195 (1): 15-30.</u> Bukovský, A. <i>et al.</i> (1983) The localization of Thy-1.1, MRC OX 2 and Ia antigens in the | | |

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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. This product is photosensitive and should be protected from light.

| Guarantee | 12 months from date of despatch |
|----------------------------------|---|
| Health And Safety Information | Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf |
| Regulatory | For research purposes only |

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M385757:210513'

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