

Datasheet: MCA02R

BATCH NUMBER 154554

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| Description: | MOUSE ANTI MOUSE CD90 |
| Specificity: | CD90 |
| Other names: | THY1 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | F7D5 |
| Isotype: | IgM |
| Quantity: | 0.25 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 | ▪ | | | 1/10 - 1/25 |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | | | ▪ | |
| Cytotoxic Assays | ▪ | | | |

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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| Target Species | Mouse |
| Product Form | IgM fraction - liquid |
| Preparation | IgM fraction prepared by ammonium sulphate precipitation |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |

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| Approx. Protein Concentrations | IgM concentration 1.0 mg/ml |
| External Database Links | <p>UniProt: P01831 Related reagents</p> <p>Entrez Gene: 21838 Thy1 Related reagents</p> |
| Synonyms | Thy-1 |
| RRID | AB_323481 |
| Fusion Partners | Spleen cells from immunised AKR mice were fused with cells of the mouse NS-1 myeloma cell line. |
| Specificity | <p>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.</p> <p>The antibody is particularly useful for removal of T lymphocytes from cell populations by complement mediated cytotoxicity (Lake et al. 1979).</p> <p>Mouse anti Mouse CD90 antibody, clone F7D5 is routinely tested in flow cytometry using mouse thymocytes.</p> |
| References | <ol style="list-style-type: none"> 1. Lake, P. <i>et al.</i> (1979) Production and characterization of cytotoxic Thy-1 antibody-secreting hybrid cell lines. Detection of T cell subsets. Eur J Immunol. 9 (11): 875-86. 2. Yoshida, K. <i>et al.</i> (2002) Evidence for shared recognition of a peptide ligand by a diverse panel of non-obese diabetic mice-derived, islet-specific, diabetogenic T cell clones. Int Immunol. 14 (12): 1439-47. 3. DeVries-vanDerZwan, A. <i>et al.</i> (1997) Specific tolerance induction and transplantation: a single-day protocol. Blood. 89 (7): 2596-601. 4. Winzeler, A.M. <i>et al.</i> (2011) The lipid sulfatide is a novel myelin-associated inhibitor of CNS axon outgrowth. J Neurosci. 31: 6481-92. 5. Unterlauff, J.D. <i>et al.</i> (2014) Enhanced survival of retinal ganglion cells is mediated by Müller glial cell-derived PEDF. Exp Eye Res. 127: 206-14. 6. Brown, R.L. <i>et al.</i> (2015) TRPM3 Expression in Mouse Retina. PLoS One. 10: e0117615. 7. Hanafusa, T. <i>et al.</i> (1988) Induction of insulinitis by adoptive transfer with L3T4+Lyt2-T-lymphocytes in T-lymphocyte-depleted NOD mice. Diabetes. 37: 204-8. 8. Billiau, A.D. <i>et al.</i> (2003) Transient expansion of Mac1+Ly6-G+Ly6-C+ early myeloid cells with suppressor activity in spleens of murine radiation marrow chimeras: possible implications for the graft-versus-host and graft-versus-leukemia reactivity of donor lymphocyte infusions. Blood. 102: 740-8. 9. Raeber, A.J. <i>et al.</i> (1999) PrP-dependent association of prions with splenic but not |

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Storage

Store at +4°C or at -20°C if preferred.

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.

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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA02R 10040 |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M371159:200529'

Printed on 02 Feb 2024