

Datasheet: MCA04G

BATCH NUMBER 158823

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| Description: | MOUSE ANTI RAT CD90 |
| Specificity: | CD90 |
| Other names: | THY1, THY1.1 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | T11D7e |
| 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 | ▪ | | | 1/5 |
| 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. 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.

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| Target Species | Rat |
| Species Cross Reactivity | <p>Reacts with: Mouse</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p> |
| Product Form | Ig fraction - liquid |

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| Preparation | Ig fraction prepared by ammonium sulphate precipitation from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |
| Approx. Protein Concentrations | IgM concentration 1 mg/ml |
| Immunogen | Xenogeneic rat thymocytes. |
| External Database Links | <p>UniProt: P01830 Related reagents</p> <p>Entrez Gene: 24832 Thy1 Related reagents</p> |
| Synonyms | Thy-1 |
| RRID | AB_322809 |
| Fusion Partners | Spleen cells from immunised CBA mice were fused with cells of the mouse NS1 myeloma cell line. |
| Specificity | <p>Mouse anti Rat CD90 antibody, clone T11D7e recognizes mouse and rat CD90 also known as Thy1.1. Thy1.1 is a monomorphic determinant in rat but polymorphic in mice. Clone T11D7e reacts with Thy1.1 mice e.g. AKR and FVB mice, but not Thy1.2 mice such as CBA and BALB/c.</p> <p>Clone T11D7e is useful for removal of T lymphocytes from cell populations by complement mediated cytotoxicity (Lake et al. 1979).</p> <p>Mouse anti Rat CD90 antibody, clone T11D7e 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. Yasumizu, R. <i>et al.</i> (1988) Development of donor-derived thymic lymphomas after allogeneic bone marrow transplantation in AKR/J mice. J Immunol. 141 (6): 2181-6. 3. Fabian, R.H. (1990) Uptake of antineuronal IgM by CNS neurons: comparison with antineuronal IgG. Neurology. 40 (3 Pt 1): 419-22. 4. Ogasawara, K. <i>et al.</i> (1990) Ia restriction specificity of KLH-specific T cells from allogeneic bone marrow chimeras is influenced by histocompatibility at the H-2 and minor histocompatibility loci. Microbiol Immunol. 34 (12): 1025-39. 5. Mahanthappa, N.K. <i>et al.</i> (1996) Glial growth factor 2, a soluble neuregulin, directly increases Schwann cell motility and indirectly promotes neurite outgrowth. J Neurosci. 16: 4673-83. |

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22. Huang, J.H. *et al.* (2022) Schwann cells-derived exosomes promote functional recovery after spinal cord injury by promoting angiogenesis. [Front Cell Neurosci. 16: 1077071.](#)

Storage

Store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. 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/MCA04G 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
'M371162:200529'

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