

# Datasheet: MCA02RT

**BATCH NUMBER 1609**

<b>Description:</b>	MOUSE ANTI MOUSE CD90
<b>Specificity:</b>	CD90
<b>Other names:</b>	THY1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	F7D5
<b>Isotype:</b>	IgM
<b>Quantity:</b>	25 µg

## 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](http://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.

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

Approx. Protein Concentrations	IgM concentration 1.0 mg/ml
External Database Links	<p><b>UniProt:</b>  <a href="#">P01831</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">21838</a>    Thy1    <a href="#">Related reagents</a></p>
Synonyms	Thy-1
RRID	AB_2201292
Fusion Partners	Spleen cells from immunised AKR mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	<p><b>Mouse anti Mouse CD90 antibody, clone F7D5</b> 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 (<a href="#">Lake et al.</a> 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"> <li>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. <a href="#">Eur J Immunol. 9 (11): 875-86.</a></li> <li>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. <a href="#">Int Immunol. 14 (12): 1439-47.</a></li> <li>3. DeVries-vanDerZwan, A. <i>et al.</i> (1997) Specific tolerance induction and transplantation: a single-day protocol. <a href="#">Blood. 89 (7): 2596-601.</a></li> <li>4. Winzeler, A.M. <i>et al.</i> (2011) The lipid sulfatide is a novel myelin-associated inhibitor of CNS axon outgrowth. <a href="#">J Neurosci. 31: 6481-92.</a></li> <li>5. Unterlauff, J.D. <i>et al.</i> (2014) Enhanced survival of retinal ganglion cells is mediated by Müller glial cell-derived PEDF. <a href="#">Exp Eye Res. 127: 206-14.</a></li> <li>6. Brown, R.L. <i>et al.</i> (2015) TRPM3 Expression in Mouse Retina. <a href="#">PLoS One. 10: e0117615.</a></li> <li>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. <a href="#">Diabetes. 37: 204-8.</a></li> <li>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. <a href="#">Blood. 102: 740-8.</a></li> <li>9. Raeber, A.J. <i>et al.</i> (1999) PrP-dependent association of prions with splenic but not</li> </ol>

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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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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA02RT">https://www.bio-rad-antibodies.com/SDS/MCA02RT</a> 10040
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<b>Regulatory</b>	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](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)  
'M371160:200529'

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