

Datasheet: MCA04G

Description:	MOUSE ANTI RAT CD90
Specificity:	CD90
Other names:	THY1
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.

Target Species	Rat
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Ig fraction - liquid
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	UniProt: P01830 Related reagents Entrez Gene: 24832 Thy1 Related reagents
Synonyms	Thy-1
Fusion Partners	Spleen cells from immunised CBA mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	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. Clone T11D7e is useful for removal of T lymphocytes from cell populations by complement mediated cytotoxicity (Lake et al. 1979). Mouse anti Rat CD90 antibody, clone T11D7e is routinely tested in flow cytometry using mouse thymocytes.
References	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. 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. 3. 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. 4. Fabian, R.H. (1990) Uptake of antineuronal IgM by CNS neurons: comparison with antineuronal IgG. Neurology. 40 (3 Pt 1): 419-22. 5. 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. 6. Heinen, A. <i>et al.</i> (2015) Fingolimod induces the transition to a nerve regeneration promoting Schwann cell phenotype. Exp Neurol. 271: 25-35. 7. Dietrich, N. <i>et al.</i> (2016) The DPP4 Inhibitor Linagliptin Protects from Experimental Diabetic Retinopathy. PLoS One. 11 (12): e0167853. 8. Pasten, C. <i>et al.</i> (2015) ApoER2 and Reelin are expressed in regenerating peripheral nerve and regulate Schwann cell migration by activating the Rac1 GEF protein, Tiam1. Mol Cell Neurosci. 69: 1-11. 9. Deliyanti, D. & Wilkinson-Berka, J.L. (2015) Inhibition of NOX1/4 with GKT137831: a potential novel treatment to attenuate neuroglial cell inflammation in the retina. J Neuroinflammation. 12: 136. 10. Simitzi, C. <i>et al.</i> (2015) Data in support on the shape of Schwann cells and sympathetic neurons onto microconically structured silicon surfaces. Data Brief. 4: 636-40. 11. Dietrich, N. <i>et al.</i> (2016) The DPP4 Inhibitor Linagliptin Protects from Experimental Diabetic Retinopathy. PLoS One. 11 (12): e0167853.
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.

Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR86...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)
Human Anti Mouse IgM (HCA040...) [FITC](#), [HRP](#)

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