Datasheet: MCA02RT

BATCH NUMBER 168959

Description:	MOUSE ANTI MOUSE CD90
Specificity:	CD90
Other names:	THY1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F7D5
Isotype:	IgM
Quantity:	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.

	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.

Target Species	Mouse
Product Form	IgM fraction - liquid.
Preparation	IgM 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 1.0 mg/ml.
External Database Links	**UniProt:** P01831 Related reagents **Entrez Gene:** 21838 Thy1 Related reagents
Synonyms	Thy-1
RRID	AB_2201292
Fusion Partners	Spleen cells from immunized AKR mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	**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. The antibody is particularly useful for removal of T lymphocytes from cell populations by complement mediated cytotoxicity (Lake *et al.* 1979). Mouse anti Mouse CD90 antibody, clone F7D5 is routinely tested in flow cytometry using mouse thymocytes.
References	1. Lake, P. *et al.* (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. Hanafusa, T. *et al.* (1988) Induction of insulitis by adoptive transfer with L3T4+Lyt2- T-lymphocytes in T-lymphocyte-depleted NOD mice. Diabetes. 37: 204-8. 3. DeVries-vanDerZwan, A. *et al.* (1997) Specific tolerance induction and transplantation: a single-day protocol. Blood. 89 (7): 2596-601. 4. Ishikawa, N. *et al.* (1998) Early cytokine responses during intestinal parasitic infections. Immunology. 93 (2): 257-63. 5. Oosterwegel, M.A. *et al.* (1999) The role of CTLA-4 in regulating Th2 differentiation. J Immunol. 163 (5): 2634-9. 6. Raeber, A.J. *et al.* (1999) PrP-dependent association of prions with splenic but not circulating lymphocytes of scrapie-infected mice. EMBO J. 18: 2702-6. 7. Wang, X. *et al.* (2001) Functional soluble CD100/Sema4D released from activated lymphocytes: possible role in normal and pathologic immune responses. Blood. 97 (11): 3498-504. 8. Yoshida, K. *et al.* (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. 9. Billiau, A.D. *et al.* (2002) Crucial role of timing of donor lymphocyte infusion in generating dissociated graft-versus-host and graft-versus-leukemia responses in mice

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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.
Guarantee	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA02RT 10040
Regulatory	For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) Alk. Phos.
Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

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