

Datasheet: MCA750

Description:	MOUSE ANTI GUINEA PIG CD90
Specificity:	CD90
Format:	Con S/N
Product Type:	Monoclonal Antibody
Clone:	CT4
Isotype:	IgG3
Quantity:	0.25 ml

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	▪			1/100 - 1/1000
Immunohistology - Frozen	▪			1/100 - 1/1000
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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	Guinea Pig
Product Form	Tissue Culture Supernatant - liquid
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃) 0.7% Bovine Serum Albumin
Immunogen	Peritoneal T-cells.
RRID	AB_321960
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.

Specificity	<p>Mouse anti Guinea Pig CD90 antibody, clone CT4 recognizes guinea pig THY-1 (CD90), a small but heavily glycosylated member of the immunoglobulin superfamily. Clone CT4 was originally identified as recognizing a guinea pig homing receptor (Kraal et al. 1986) and later confirmed as recognizing the guinea pig homologue of human and rodent CD90 (Schäfer et al. 1999) by purification and microsequencing. Guinea Pig CD90 is notable for its level of N-linked glycosylation, rendering it an apparent molecular mass of ~36 kDa, higher than that seen in most other species where CD90 has been identified and characterized.</p> <p>Guinea pig CD90 (according to Uniprot entry Q9WUR5) demonstrates 82% amino acid identity with human CD90, 74% with murine CD90 and 76% with rat.</p> <p>Guinea pig CD90 is highly expressed in the brain and unlike other species is also expressed on most resting B lymphocytes (Schäfer et al. 1999)</p> <p>Mouse anti Guinea Pig CD90 antibody, clone CT4 has been used extensively for the flow cytometric analysis of guinea pig cell populations (Gupta et al. 2012).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Tan, B.T. <i>et al.</i> (1985) Production of monoclonal antibodies defining guinea pig T-cell surface markers and a strain 13 Ia-like antigen: the value of immunohistological screening. Hybridoma. 4 (2): 115-24. 2. Kraal, G. <i>et al.</i> (1986) A surface molecule on guinea pig lymphocytes involved in adhesion and homing. Eur J Immunol. 16 (12): 1515-9. 3. Schäfer, H. <i>et al.</i> (1991) T cell proliferation induced by monoclonal antibodies to a phosphatidylinositol-linked differentiation antigen of guinea pig lymphocytes. Eur J Immunol. 21 (3): 701-5. 4. Gupta, A. <i>et al.</i> (2012) Efficacy of <i>Mycobacterium indicus pranii</i> immunotherapy as an adjunct to chemotherapy for tuberculosis and underlying immune responses in the lung. PLoS One. 7: e39215. 5. Gupta, A. <i>et al.</i> (2012) Protective efficacy of <i>Mycobacterium indicus pranii</i> against tuberculosis and underlying local lung immune responses in guinea pig model. Vaccine. 30: 6198-209. 6. Shang, S. <i>et al.</i> (2011) Activities of TMC207, rifampin, and pyrazinamide against <i>Mycobacterium tuberculosis</i> infection in guinea pigs. Antimicrob Agents Chemother. 55 (1): 124-31.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #10495 available at:

Information 10495: <https://www.bio-rad-antibodies.com/uploads/MSDS/10495.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#)

North & South Tel: +1 800 265 7376

America 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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