

## Datasheet: MCA750

<b>Description:</b>	MOUSE ANTI GUINEA PIG CD90
<b>Specificity:</b>	CD90
<b>Format:</b>	Con S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CT4
<b>Isotype:</b>	IgG3
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Guinea Pig
<b>Product Form</b>	Tissue Culture Supernatant - liquid
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.7% Bovine Serum Albumin
<b>Immunogen</b>	Peritoneal T-cells.
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.

### Specificity

**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.

Guinea pig CD90 (according to Uniprot entry Q9WUR5) demonstrates 82% amino acid identity with human CD90, 74% with murine CD90 and 76% with rat.

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](#))

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](#)).

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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- References**
1. Tan, B.T. *et al.* (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. *et al.* (1986) A surface molecule on guinea pig lymphocytes involved in adhesion and homing. [Eur J Immunol. 16 \(12\): 1515-9.](#)
  3. Schäfer, H. *et al.* (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. *et al.* (2012) Efficacy of *Mycobacterium indicus pranii* immunotherapy as an adjunct to chemotherapy for tuberculosis and underlying immune responses in the lung. [PLoS One. 7: e39215.](#)
  5. Gupta, A. *et al.* (2012) Protective efficacy of *Mycobacterium indicus pranii* against tuberculosis and underlying local lung immune responses in guinea pig model. [Vaccine. 30: 6198-209.](#)
  6. Shang, S. *et al.* (2011) Activities of TMC207, rifampin, and pyrazinamide against *Mycobacterium tuberculosis* infection in guinea pigs. [Antimicrob Agents Chemother. 55 \(1\): 124-31.](#)
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**Storage** Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. 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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**Shelf Life** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10082 available at:  
10082: <https://www.bio-rad-antibodies.com/uploads/MSDS/10082.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

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

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

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

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