

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	0.09% Sodium Azide (NaN ₃)
Stabilisers	0.7% Bovine Serum Albumin
Immunogen	Peritoneal T-cells.
Fusion Partners	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](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

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.](#)

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.

Shelf Life 18 months from date of despatch.

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

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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

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

North & South America Tel: +1 800 265 7376
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

