

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	0.09% Sodium Azide (NaN ₃) 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 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none">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 <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. et al. (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. et al. (2011) Activities of TMC207, rifampin, and pyrazinamide against <i>Mycobacterium tuberculosis</i> 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

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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