

Datasheet: MCA1107PE

Description:	escription: RAT ANTI MOUSE CD4:RPE	
Specificity:	CD4	
Other names:	L3T4 ANTIGEN, LY-4	
Format:	RPE	
Product Type:	Monoclonal Antibody	
Clone:	YTS177.9	
Isotype:	lgG2a	
Quantity:	100 TESTS	

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				Neat

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.

Farget Species	Mouse		
roduct Form	Purified IgG conjuga	ated to R. Phycoerythrin	(RPE) - lyophilized
econstitution	Reconstitute with 1	ml distilled water	
ax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	RPE 488nm laser	496	578
eparation	Purified IgG prepare supernatant	ed by affinity chromatogr	raphy on Protein G
er Solution	Phosphate buffered	saline	
servative	0.09& sodium azide	(NaN ₃)	
bilisers	1% bovine serum al	bumin	

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Mouse spleen cells.

External Database

Links

UniProt:

P06332 Related reagents

Entrez Gene:

12504 Cd4 Related reagents

RRID

AB 324215

Fusion Partners

Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.

Specificity

Rat anti Mouse CD4 antibody, clone YTS177.9 reacts with the Mouse CD4 antigen, non polymorphic epitope (Qin et al. 1990). Rat anti Mouse CD4 antibody, Rat anti Mouse CD4 antibody, clone YTS177.9 reacts with CD4 transfectants (Cobbold et al. 1990). Rat anti Mouse CD4 antibody, clone YTS177.9 also blocks MHC-II dependant T-cell responses in vitro and in vivo and induces tolerance (Qin et al. 1990) and Cobbold et al. 1990).

Flow Cytometry

Use 10µl of the suggested working dilution to label 10⁶ cells or 100µl of whole blood. The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/BUF041B</u>).

References

- 1. Qin, S.X. *et al.* (1990) Induction of tolerance in peripheral T cells with monoclonal antibodies. <u>Eur J Immunol. 20 (12): 2737-45.</u>
- 2. Cobbold, S.P. *et al.* (1990) The induction of skin graft tolerance in major histocompatibility complex-mismatched or primed recipients: primed T cells can be tolerized in the periphery with anti-CD4 and anti-CD8 antibodies. <u>Eur J Immunol. 20 (12):</u> 2747-55.
- 3. Wise, M.P. *et al.* (1998) Linked suppression of skin graft rejection can operate through indirect recognition. <u>J Immunol. 161 (11): 5813-6.</u>
- 4. Daley, S.R. *et al.* (2007) A key role for TGF-beta signaling to T cells in the long-term acceptance of allografts. J Immunol. 179: 3648-54.
- 5. Saunders, A. *et al.* (2009) Expression of GIMAP1, a GTPase of the immunity-associated protein family, is not up-regulated in malaria. Malar J. 8: 53.
- 6. Agua-Doce, A. and Graca, L. (2011) Prevention of house dust mite induced allergic airways disease in mice through immune tolerance. PLoS One. 6: e22320.
- 7. Carlring, J. *et al.* (2012) Conjugation of lymphoma idiotype to CD40 antibody enhances lymphoma vaccine immunogenicity and antitumor effects in mice. Blood. 119 (9): 2056-65.
- 8. Kim, I. *et al.* (2017) Ibrutinib suppresses alloantibody responses in a mouse model of allosensitization. <u>Transpl Immunol.</u> 45: 59-64.
- 9. Szuster-Ciesielska, A. *et al.* (2019) Immunogenic Evaluation of Ribosomal P-Protein Antigen P0, P1, and P2 and Pentameric Protein Complex P0-(P1-P2)(2) of Plasmodium falciparum in a Mouse Model. J Immunol Res. 2019: 9264217.

Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch				
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1107PE 20487				
Regulatory	For research purposes only				

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:RPE (MCA1212PE)

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M419316:230616'

Printed on 19 Jan 2024

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