

Datasheet: MCA1107PE

BATCH NUMBER 162432

Description:	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.

Target Species	Mouse			
Product Form	Purified I	gG conjugate	ed to R. Phycoerythrin	(RPE) - lyophilized
Reconstitution	Reconsti	tute with 1 m	l distilled water	
Max Ex/Em	Fluoroph	ore	Excitation Max (nm)	Emission Max (nm)
	RPE 488r	ım laser	496	578
Preparation	Purified I	gG prepared	by affinity chromatog	raphy on Protein G
Buffer Solution	Phospha	te buffered s	aline	
Preservative	0.09% S	odium Azide		
Stabilisers	1% B	ovine Serum	Albumin	
	5% S	ucrose		

Immunogen	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 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul of whole blood.
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/B</u>).
References	1. Qin, S.X. <i>et al.</i> (1990) Induction of tolerance in peripheral T cells with monoclonal antibodies. Eur J Immunol. 20 (12): 2737-45. 2. Cobbold, S.P. <i>et al.</i> (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. Eur J Immunol. 20 (12): 2747-55. 3. Wise, M.P. <i>et al.</i> (1998) Linked suppression of skin graft rejection can operate through indirect recognition. J Immunol. 161 (11): 5813-6. 4. Carlring, J. <i>et al.</i> (2012) Conjugation of lymphoma idiotype to CD40 antibody enhances lymphoma vaccine immunogenicity and antitumor effects in mice. Blood. 119 (9): 2056-65. 5. 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. 6. Daley, S.R. <i>et al.</i> (2007) A key role for TGF-beta signaling to T cells in the long-term acceptance of allografts. J Immunol. 179: 3648-54. 7. Saunders, A. <i>et al.</i> (2009) Expression of GIMAP1, a GTPase of the immunity-associated protein family, is not up-regulated in malaria. Malar J. 8: 53. 8. Carlring, J. <i>et al.</i> (2012) Conjugation of lymphoma idiotype to CD40 antibody enhances lymphoma vaccine immunogenicity and antitumor effects in mice. Blood. 119: 2056-65. 9. Kim, I. <i>et al.</i> (2017) Ibrutinib suppresses alloantibody responses in a mouse model of allosensitization. Transpl Immunol. 45: 59-64. 10. Agnieszka, S. <i>et al.</i> (2019) Immunogenic Evaluation of Ribosomal P-Protein Antigen P0, P1, and P2 and Pentameric Protein Complex P0-(P1-P2)2 of <i>Plasmodium falciparum</i> in a Mouse Model Journal of Immunology Research. 2019: 1-19.

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 sho protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
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12 months from date of despatch
Material Safety Datasheet documentation #20487 available at:
https://www.bio-rad-antibodies.com/SDS/MCA1107PE
20487
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)

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Worldwide

Tel: +44 (0)1865 852 700

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M375269:210104'

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