

Datasheet: MCA1107EL BATCH NUMBER 159642

Description:	RAT ANTI MOUSE CD4:Low Endotoxin
Specificity:	CD4
Other names:	L3T4 ANTIGEN, LY-4
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	YTS177.9
Isotype:	lgG2a
Quantity:	0.5 mg

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 <u>www.bio-rad-antibodies.com/protocols</u>.

	Yes I	No Not Determined	Suggested Dilution		
Flow Cytometry	-		1/50 - 1/200		
Immunohistology - Frozen		•			
Immunohistology - Paraffin					
ELISA					
Immunoprecipitation		•			
Western Blotting					
Functional Assays	•				
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 a 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 IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	None present

Stabilisers

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Mouse spleen cells.
External Database	
Links	UniProt:
	P06332 Related reagents
	Entrez Gene:
	12504 Cd4 Related reagents
RRID	AB 808423
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 <i>et al.</i> 1990). Rat anti Mouse CD4 antibody, Rat anti Mouse CD4 antibody, clone YTS177.9 reacts with CD4 transfectants (Cobbold <i>et al.</i> 1990). Rat anti Mouse CD4 antibody, clone YTS177.9 also blocks MHC-II dependant T-cell responses <i>in vitro</i> and <i>in vivo</i> and induces tolerance (Qin <i>et al.</i> 1990) and Cobbold <i>et al.</i> 1990).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Qin, S.X. <i>et al.</i> (1990) Induction of tolerance in peripheral T cells with monoclonal antibodies. <u>Eur J Immunol. 20 (12): 2737-45.</u> 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. <u>Eur J Immunol. 20 (12): 2747-55.</u> Wise, M.P. <i>et al.</i> (1998) Linked suppression of skin graft rejection can operate through indirect recognition. <u>J Immunol. 161 (11): 5813-6.</u> Carlring, J. <i>et al.</i> (2012) Conjugation of lymphoma idiotype to CD40 antibody enhances lymphoma vaccine immunogenicity and antitumor effects in mice. <u>Blood. 119 (9): 2056-65.</u> Agua-Doce, A. and Graca, L. (2011) Prevention of house dust mite induced allergic airways disease in mice through immune tolerance. <u>PLoS One. 6: e22320.</u> 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. <u>J Immunol. 179: 3648-54.</u> Saunders, A. <i>et al.</i> (2012) Conjugation of Iymphoma idiotype to CD40 antibody enhances lymphoma vaccine immunogenicity and antitumor effects in mice. <u>Blood. 119 (2056-65.</u> Kauders, A. <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. Saunders, A. <i>et al.</i> (2012) Conjugation of lymphoma idiotype to CD40 antibody enhances lymphoma vaccine immunogenicity and antitumor effects in mice. <u>Blood. 119: 2056-65.</u> Kim, I. <i>et al.</i> (2017) Ibrutinib suppresses alloantibody responses in a mouse model of allosensitization. <u>Transpl Immunol. 45: 59-64.</u>

	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 <u>Journal of Immunology Research. 2019: 1-19.</u>
Storage	Store at -20°C only.
	This product should be stored undiluted.
	Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. 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 #10162 available at: https://www.bio-rad-antibodies.com/SDS/MCA1107EL 10162
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16)	DyLight®800		
Rabbit Anti Rat IgG (STAR17)	FITC		
Goat Anti Rat IgG (STAR72)	HRP		
Goat Anti Rat IgG (STAR69)	FITC		
Goat Anti Rat IgG (STAR73)	RPE		
Rabbit Anti Rat IgG (STAR21)	HRP		
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71) <u>DyLight®550</u> , <u>DyLight®650</u> , <u>DyLight®800</u>			
Goat Anti Rat IgG (STAR131)	<u>Alk. Phos., Biotin</u>		
Recommended Negative Controls			

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:Low Endotoxin (MCA1212EL)

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
	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-rac	l.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M364785:200529'

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