

# Datasheet: MCA1107EL

#### **BATCH NUMBER 158727**

Description:	RAT ANTI MOUSE CD4:Low Endotoxin		
Specificity:	CD4		
Other names:	L3T4 ANTIGEN, LY-4		
Format:	Low Endotoxin		
<b>Product Type:</b>	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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	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 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 IgG - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue supernatant	culture
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 cell line.	.2.3 rat myeloma
Specificity	Rat anti Mouse CD4 antibody, clone YTS177.9 reacts with the Mouse C polymorphic epitope (Qin et al. 1990). Rat anti Mouse CD4 antibody, Rat antibody, clone YTS177.9 reacts with CD4 transfectants (Cobbold et al. 1 Mouse CD4 antibody, clone YTS177.9 also blocks MHC-II dependant T-c vitro and in vivo and induces tolerance (Qin et al. 1990) and Cobbold et al.	anti Mouse CD4 1990).Rat anti cell responses <i>in</i>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.	
References	<ol> <li>Qin, S.X. <i>et al.</i> (1990) Induction of tolerance in peripheral T cells with rantibodies. Eur J Immunol. 20 (12): 2737-45.</li> <li>Cobbold, S.P. <i>et al.</i> (1990) The induction of skin graft tolerance in major histocompatibility complex-mismatched or primed recipients: primed T cetolerized in the periphery with anti-CD4 and anti-CD8 antibodies. Eur J In 2747-55.</li> <li>Wise, M.P. <i>et al.</i> (1998) Linked suppression of skin graft rejection can dindirect recognition. J Immunol. 161 (11): 5813-6.</li> <li>Carlring, J. <i>et al.</i> (2012) Conjugation of lymphoma idiotype to CD40 and lymphoma vaccine immunogenicity and antitumor effects in mice. Blood.</li> <li>Agua-Doce, A. and Graca, L. (2011) Prevention of house dust mite ind airways disease in mice through immune tolerance. PLoS One. 6: e22326. Daley, S.R. <i>et al.</i> (2007) A key role for TGF-beta signaling to T cells in acceptance of allografts. J Immunol. 179: 3648-54.</li> <li>Saunders, A. <i>et al.</i> (2009) Expression of GIMAP1, a GTPase of the imassociated protein family, is not up-regulated in malaria. Malar J. 8: 53.</li> <li>Carlring, J. <i>et al.</i> (2012) Conjugation of lymphoma idiotype to CD40 and lymphoma vaccine immunogenicity and antitumor effects in mice. Blood.</li> <li>Kim, I. <i>et al.</i> (2017) Ibrutinib suppresses alloantibody responses in a mallosensitization. Transpl Immunol. 45: 59-64.</li> </ol>	or ells can be nmunol. 20 (12): operate through on tibody enhances 119 (9): 2056-65. Iuced allergic 0. the long-term on tibody enhances 119: 2056-65.

10. Agnieszka, S. 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 Journal of Immunology Research. 2019: 1-19.

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

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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...) DyLight®550, DyLight®650, DyLight®800

Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

#### **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

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

Email: antibody\_sales\_us@bio-rad.com Email: antibody\_sales\_uk@bio-rad.com Email: antibody\_sales\_de@bio-rad.com

Tel: +49 (0) 89 8090 95 21

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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