

Datasheet: MCA1767EL

Description:	RAT ANTI MOUSE CD4:Low Endotoxin
Specificity:	CD4
Other names:	L3T4 ANTIGEN, LY-4
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	YTS191.1
Isotype:	IgG2b
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			1/100 - 1/200
Immunohistology - Frozen (1)	■			
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.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

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 Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	<0.01 EU/ug

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
External Database Links	UniProt: P06332 Related reagents Entrez Gene: 12504 Cd4 Related reagents
Specificity	Rat anti Mouse CD4 antibody, clone YTS191.1 recognizes the murine CD4 cell surface antigen, expressed by a subset of T lymphocytes. Rat anti Mouse CD4 antibody, clone YTS191.1 exhibits depleting activity when used <i>in vivo</i> (Bemelman <i>et al.</i> 1998).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	1. 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. 2. Bemelman, F. <i>et al.</i> (1998) Bone marrow transplantation induces either clonal deletion or infectious tolerance depending on the dose. J Immunol. 160 (6): 2645-8. 3. Higgins, L.M. <i>et al.</i> (1999) Regulation of T cell activation in vitro and in vivo by targeting the OX40-OX40 ligand interaction: amelioration of ongoing inflammatory bowel disease with an OX40-IgG fusion protein, but not with an OX40 ligand-IgG fusion protein. J Immunol. 162 (1): 486-93. 4. Croxford, J.L. <i>et al.</i> (2001) Different therapeutic outcomes in experimental allergic encephalomyelitis dependent upon the mode of delivery of IL-10: a comparison of the effects of protein, adenoviral or retroviral IL-10 delivery into the central nervous system. J Immunol. 166: 4124-30. 5. Eller, K. <i>et al.</i> (2011) IL-9 production by regulatory T cells recruits mast cells that are essential for regulatory T cell-induced immune suppression. J Immunol. 186: 83-91. 6. Gaupp, S. <i>et al.</i> (2008) Amelioration of experimental autoimmune encephalomyelitis in IL-4Ralpha^{-/-} mice implicates compensatory up-regulation of Th2-type cytokines. Am J Pathol. 173: 119-29. 7. Grimm, M.<i>et al.</i> (2010) Evaluation of immunological escape mechanisms in a mouse model of colorectal liver metastases. BMC Cancer. 10: 82. 8. Jégou, J.F. <i>et al.</i> (2007) C3d Binding to the Myelin Oligodendrocyte Glycoprotein Results in an Exacerbated Experimental Autoimmune Encephalomyelitis J Immunol. 178: 3323-31. 9. Huber, J.M. <i>et al.</i> (2009) The proteasome inhibitor bortezomib aggravates renal ischemia-reperfusion injury. Am J Physiol Renal Physiol. 297: F451-60. 10. Wolf, D. <i>et al.</i> (2005) CD4+CD25+ regulatory T cells inhibit experimental anti-glomerular basement membrane glomerulonephritis in mice. J Am Soc Nephrol. 16: 1360-70. 11. Abdulreda, M.H. <i>et al.</i> (2011) High-resolution, noninvasive longitudinal live imaging of immune responses. Proc Natl Acad Sci U S A. 108: 12863-8. 12. Nakashima, H. <i>et al.</i> (2011) A Novel Combination Immunotherapy for Cancer by IL-13Rα2-Targeted DNA Vaccine and Immunotoxin in Murine Tumor Models. J Immunol. 187: 4935-46. 13. Scotland, R.S. <i>et al.</i> (2011) Sex-differences in resident immune cell phenotype underlies more efficient acute inflammatory responses in female mice. Blood. 118: 5918-27. 14. Zitt, E. <i>et al.</i> (2011) The selective mineralocorticoid receptor antagonist eplerenone is protective in mild anti-GBM glomerulonephritis. Int J Clin Exp Pathol. 4:606-15.

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.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

'M319059:180719'

Printed on 01 Aug 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)