

Datasheet: MCA153R

BATCH NUMBER 151107

Description:	MOUSE ANTI RAT CD4 (DOMAIN 2)
Specificity:	CD4 (DOMAIN 2)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-35
Isotype:	IgG2a
Quantity:	0.25 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	▪			1/10 - 1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Western Blotting			▪	
Immunofluorescence	▪			

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	Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	MLR generated rat T helper lymphocytes.
External Database Links	<p>UniProt: P05540 Related reagents</p> <p>Entrez Gene: 24932 Cd4 Related reagents</p>
RRID	AB_322831
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p>Mouse anti Rat CD4 (domain 2) antibody, clone OX-35 recognizes the rat CD4 cell surface antigen, a ~55kDa glycoprotein expressed by helper T cells and weakly by monocytes.</p> <p>Mouse anti Rat CD4 (Domain 2) antibody, clone OX-35 recognizes a different epitope on the CD4 molecule to Mouse anti Rat CD4 antibody, clone W3/25.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Wang, C.C. <i>et al.</i> (1996) Immunohistochemical study of amoeboid microglial cells in fetal rat brain. J Anat. 189 (Pt 3): 567-74. 2. Jefferies, W.A. <i>et al.</i> (1985) Authentic T helper CD4 (W3/25) antigen on rat peritoneal macrophages. J Exp Med. 162 (1): 117-27. 3. Camelo, S. <i>et al.</i> (2004) The distribution of antigen in lymphoid tissues following its injection into the anterior chamber of the rat eye. J Immunol. 172: 5388-95. 4. Elflein, K. <i>et al.</i> (2003) Rapid recovery from T lymphopenia by CD28 superagonist therapy. Blood. 102: 1764-70. 5. Scherr, M. <i>et al.</i> (2002) Efficient gene transfer into the CNS by lentiviral vectors purified by anion exchange chromatography. Gene Ther. 9: 1708-14. 6. Cho, K.S. <i>et al.</i> (2010) Mechanism analysis of long-term graft survival by monocarboxylate transporter-1 inhibition. Transplantation. 90: 1299-306. 7. Chang, C.J. <i>et al.</i> (2004) The immunization site of cytokine-secreting tumor cell vaccines influences the trafficking of tumor-specific T lymphocytes and antitumor efficacy against regional tumors. J Immunol. 173: 6025-32. 8. Basiri, M. and Doucette, R. (2010) Sensorimotor cortex aspiration: a model for studying Wallerian degeneration-induced glial reactivity along the entire length of a single CNS axonal pathway. Brain Res Bull. 81: 43-52. 9. Esquifino, A.I. <i>et al.</i> (2007) Immune response after experimental allergic encephalomyelitis in rats subjected to calorie restriction. J Neuroinflammation. 4:6. 10. Zhao, S. <i>et al.</i> (2007) Extensive FDG uptake and its modification with corticosteroid in a granuloma rat model: an experimental study for differentiating granuloma from tumors.

[Eur J Nucl Med Mol Imaging 34: 2096-105.](#)

11. Yan, Y. *et al.* (2003) Pathogenesis of autoimmunity after xenogeneic thymus transplantation. [J Immunol. 170: 5936-46.](#)

12. Li, Q. *et al.* (2019) Dendritic cell-targeted CD40 DNA vaccine suppresses Th17 and ameliorates progression of experimental autoimmune glomerulonephritis [Journal of Leukocyte Biology. 27 Feb \[Epub ahead of print\].](#)

13. Thirion-Delalande, C. *et al.* (2017) Comparative analysis of the oral mucosae from rodents and non-rodents: Application to the nonclinical evaluation of sublingual immunotherapy products. [PLoS One. 12 \(9\): e0183398.](#)

14. James, R.E. *et al.* (2020) Persistent elevation of intrathecal pro-inflammatory cytokines leads to multiple sclerosis-like cortical demyelination and neurodegeneration. [Acta Neuropathol Commun. 8 \(1\): 66.](#)

Storage Store at +4°C or at -20°C if preferred.

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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA153R>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA1210\)](#)

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

To find a

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

'M365398:200529'

Printed on 12 Aug 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)