

Datasheet: MCA153GA

BATCH NUMBER 1708

Description:	MOUSE ANTI RAT CD4 (DOMAIN 2)
Specificity:	CD4 (DOMAIN 2)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-35
Isotype:	IgG2a
Quantity:	0.1 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			▪	
Immunoprecipitation	▪			
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_567278
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/MCA153GA>
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 Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

To

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

find a

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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

'M365397:200529'

Printed on 12 Aug 2023

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