

## Datasheet: MCA153A647

<b>Description:</b>	MOUSE ANTI RAT CD4 (DOMAIN 2):Alexa Fluor® 647
<b>Specificity:</b>	CD4 (DOMAIN 2)
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-35
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/1ml

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat

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.

<b>Target Species</b>	Rat		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	MLR generated rat T helper lymphocytes.		
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P05540</a> <a href="#">Related reagents</a>		
	<b>Entrez Gene:</b>		

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<b>RRID</b>	AB_567279
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<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
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<b>Specificity</b>	<p><b>Mouse anti Rat CD4 (domain 2) antibody, clone OX-35</b> 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, <a href="#">clone W3/25</a>.</p>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Wang, C.C. <i>et al.</i> (1996) Immunohistochemical study of amoeboid microglial cells in fetal rat brain. <a href="#">J Anat. 189 ( Pt 3): 567-74.</a></li><li>2. Jefferies, W.A. <i>et al.</i> (1985) Authentic T helper CD4 (W3/25) antigen on rat peritoneal macrophages. <a href="#">J Exp Med. 162 (1): 117-27.</a></li><li>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. <a href="#">J Immunol. 172: 5388-95.</a></li><li>4. Elflein, K. <i>et al.</i> (2003) Rapid recovery from T lymphopenia by CD28 superagonist therapy. <a href="#">Blood. 102: 1764-70.</a></li><li>5. Scherr, M. <i>et al.</i> (2002) Efficient gene transfer into the CNS by lentiviral vectors purified by anion exchange chromatography. <a href="#">Gene Ther. 9: 1708-14.</a></li><li>6. Cho, K.S. <i>et al.</i> (2010) Mechanism analysis of long-term graft survival by monocarboxylate transporter-1 inhibition. <a href="#">Transplantation. 90: 1299-306.</a></li><li>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. <a href="#">J Immunol. 173: 6025-32.</a></li><li>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. <a href="#">Brain Res Bull. 81: 43-52.</a></li><li>9. Esquifino, A.I. <i>et al.</i> (2007) Immune response after experimental allergic encephalomyelitis in rats subjected to calorie restriction. <a href="#">J Neuroinflammation. 4:6.</a></li><li>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. <a href="#">Eur J Nucl Med Mol Imaging 34: 2096-105.</a></li><li>11. Yan, Y. <i>et al.</i> (2003) Pathogenesis of autoimmunity after xenogeneic thymus transplantation. <a href="#">J Immunol. 170: 5936-46.</a></li><li>12. Li, Q. <i>et al.</i> (2019) Dendritic cell-targeted CD40 DNA vaccine suppresses Th17 and ameliorates progression of experimental autoimmune glomerulonephritis <a href="#">Journal of Leukocyte Biology. 27 Feb [Epub ahead of print].</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1210A647\)](#)

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