

Datasheet: MCA1022R

BATCH NUMBER 168041

Description:	MOUSE ANTI RAT CD4 (DOMAINS 3 AND 4)
Specificity:	CD4 (DOMAINS 3 AND 4)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-68
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	▪			1/50 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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 from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
External Database Links	UniProt: P05540 Related reagents Entrez Gene: 24932 Cd4 Related reagents
RRID	AB_567282
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the NS1 myeloma cell line.
Specificity	Mouse anti Rat CD4 (Domains 3 and 4) monoclonal antibody, clone OX-68 recognizes domains 3 and 4 of rat CD4, a single pass type I membrane glycoprotein.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl.
References	<ol style="list-style-type: none"> 1. Kerr, J.S, and Wright, G.J. (2012) Avidity-based extracellular interaction screening (AVEXIS) for the scalable detection of low-affinity extracellular receptor-ligand interactions. J Vis Exp. 5(61): e3881. 2. Crosnier, C. <i>et al.</i> (2013) A library of functional recombinant cell-surface and secreted <i>P. falciparum</i> merozoite proteins. Mol Cell Proteomics. 12 (12): 3976-86. 3. van Wilgenburg, B. <i>et al.</i> (2014) The productive entry pathway of HIV-1 in macrophages is dependent on endocytosis through lipid rafts containing CD4. PLoS One. 9 (1): e86071. 4. Crosnier, C. <i>et al.</i> (2016) Binding of <i>Plasmodium falciparum</i> Merozoite Surface Proteins DBLMSP and DBLMSP2 to Human Immunoglobulin M Is Conserved among Broadly Diverged Sequence Variants. J Biol Chem. 291 (27): 14285-99. 5. Liu, Y. <i>et al.</i> (2018) Structural Basis for Draxin-Modulated Axon Guidance and Fasciculation by Netrin-1 through DCC. Neuron. 97 (6): 1261-1267.e4. 6. Proto, W.R. <i>et al.</i> (2019) Adaptation of <i>Plasmodium falciparum</i>. to humans involved the loss of an ape-specific erythrocyte invasion ligand. Nat Commun. 10 (1): 4512. 7. Crosnier, C. <i>et al.</i> (2022) Screening of a Library of Recombinant <i>Schistosoma mansoni</i> Proteins With Sera From Murine and Human Controlled Infections Identifies Early Serological Markers. J Infect Dis. 225 (8): 1435-46. 8. Sharma, S. & Wright, G.J. (2020) Cell Surface Receptor Identification Using Genome-Scale CRISPR/Cas9 Genetic Screens. J Vis Exp. 2020 Jun 06 (160).
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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/MCA1022R>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
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
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

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
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M407806:221009'

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