

Datasheet: MCA154A647

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| Description: | MOUSE ANTI RAT CD2:Alexa Fluor® 647 |
| Specificity: | CD2 |
| Other names: | E-ROSETTE RECEPTOR, LFA-2 |
| Format: | ALEXA FLUOR® 647 |
| Product Type: | Monoclonal Antibody |
| Clone: | OX-34 |
| Isotype: | IgG2a |
| Quantity: | 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.

| | 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.

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| Target Species | Rat | | |
| Product Form | Purified IgG conjugated to Alexa Fluor® 647 - liquid | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
| | Alexa Fluor®647 | 650 | 665 |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.09% Sodium Azide | | |
| Stabilisers | 1% Bovine Serum Albumin | | |
| Approx. Protein Concentrations | IgG concentration 0.05 mg/ml | | |
| Immunogen | Activated rat T helper cells. | | |
| External Database Links | UniProt: | | |
| | P08921 | Related reagents | |

Entrez Gene:

[497761](#) Cd2 [Related reagents](#)

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| Fusion Partners | Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line. |
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| Specificity | Mouse anti Rat CD2 antibody, clone OX-34 recognizes a determinant on thymocytes and peripheral T-cells but it does not bind to B cells or peritoneal macrophages. The antigen recognized by this antibody is a 50-54 kDa glycoprotein, homolog of the human CD2 antigen (Williams et al. 1987). |
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| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
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| References | <ol style="list-style-type: none">1. Williams, A.F. <i>et al.</i> (1987) Similarities in sequences and cellular expression between rat CD2 and CD4 antigens. J Exp Med. 165 (2): 368-80.2. Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. Immunology. 42 (4): 593-600.3. Whiteland, J.L. <i>et al.</i> (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J Histochem Cytochem. 43 (3): 313-20.4. Baker, S.C. <i>et al.</i> (2011) Cellular Integration and Vascularisation Promoted by a Resorbable, Particulate-Leached, Cross-Linked Poly(ϵ-caprolactone) Scaffold. Macromol Biosci. 11: 618-27.5. Romani, P. <i>et al.</i> (2009) Cell survival and polarity of <i>Drosophila</i> follicle cells require the activity of ecdysone receptor B1 isoform. Genetics. 181: 165-75.6. Stybayeva, G. <i>et al.</i> (2010) Lensfree holographic imaging of antibody microarrays for high-throughput detection of leukocyte numbers and function. Anal Chem. 82: 3736-44.7. Bastock, R. <i>et al.</i> (2003) Strabismus is asymmetrically localised and binds to Prickle and Dishevelled during <i>Drosophila</i> planar polarity patterning. Development. 130: 3007-14.8. Brückner, K. <i>et al.</i> (2000) Glycosyltransferase activity of Fringe modulates Notch-Delta interactions. Nature. 406: 411-5.9. Liversidge, J. <i>et al.</i> (2002) Nitric oxide mediates apoptosis through formation of peroxynitrite and Fas/Fas-ligand interactions in experimental autoimmune uveitis. Am J Pathol. 160: 905-16.10. Sarpal, R. <i>et al.</i> (2012) Mutational analysis supports a core role for <i>Drosophila</i> α-catenin in adherens junction function. J Cell Sci. 125: 233-45.11. Zhang, H. <i>et al.</i> (2011) Basic residues in the T-cell receptor ζ cytoplasmic domain mediate membrane association and modulate signaling. Proc Natl Acad Sci U S A. 108: 19323-8.12. Heck, B.W. <i>et al.</i> (2012) The transcriptional corepressor SMRTER influences both Notch and ecdysone signaling during <i>Drosophila</i> development. Biol Open. 1 (3): 182-96.13. Clark, I.B. <i>et al.</i> (2011) Fibroblast growth factor signalling controls successive cell behaviours during mesoderm layer formation in <i>Drosophila</i>. Development. 138: 2705-15.14. Domanitskaya, E. and Schüpbach, T. (2012) CoREST acts as a positive regulator of Notch signaling in the follicle cells of <i>Drosophila melanogaster</i>. J Cell Sci. 125: 399-410.15. Dragovic, R.A. <i>et al.</i> (2015) Isolation of syncytiotrophoblast microvesicles and exosomes and their characterisation by multicolour flow cytometry and fluorescence Nanoparticle Tracking Analysis. Methods. 87: 64-74. |
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| 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. This product is photosensitive and should be protected from light. |
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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.

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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>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

North & South Tel: +1 800 265 7376

America 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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