

Datasheet: MCA1439P647

Description:	RAT ANTI MOUSE CD19:RPE-Alexa Fluor® 647
Specificity:	CD19
Format:	RPE-ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	6D5
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 - 1/5

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	Mouse		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Alexa Fluor® 647 - lyophilised		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE-Alexa Fluor®647 488nm laser	496	667
	RPE-Alexa Fluor®647 561nm laser	546	667
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	
	5%	Sucrose	
Immunogen	Human K562 cell line transfected with murine CD19.		
External Database Links	UniProt:		

Entrez Gene:

[12478](#) Cd19 [Related reagents](#)

Fusion Partners	Spleen cells from immunised rats were fused with cells of the P3X63.Ag8.653 myeloma cell line.
Specificity	Rat anti Mouse CD19 antibody, clone 6D5 recognizes the murine CD19 cell surface antigen, a 95kDa glycoprotein expressed by B lymphocytes. Clone 6D5 has been shown to recognize the same epitope as clone ID3 in cross-competition assays.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).
References	1. Vernooy, J.H. <i>et al.</i> (2002) Long-term intratracheal lipopolysaccharide exposure in mice results in chronic lung inflammation and persistent pathology. Am J Respir Cell Mol Biol. 26 (1): 152-9. 2. Andrew, D. and Aspinall, R. (2001) IL-7 and not stem cell factor reverses both the increase in apoptosis and the decline in thymopoiesis seen in aged mice. J Immunol. 166: 1524-30. 3. Bermudez-Fajardo, A. <i>et al.</i> (2011) The effect of Chlamydomonas pneumoniae Major Outer Membrane Protein (MOMP) on macrophage and T cell-mediated immune responses. Immunobiology. 216: 152-63. 4. De Jesus, M. <i>et al.</i> (2009) Galactoxylomannan-mediated immunological paralysis results from specific B cell depletion in the context of widespread immune system damage. J Immunol. 183: 3885-94. 5. Jégou, J.F. <i>et al.</i> (2007) C3d binding to the myelin oligodendrocyte glycoprotein results in an exacerbated experimental autoimmune encephalomyelitis. J Immunol. 178: 3323-31. 6. Starck, J. <i>et al.</i> (2010) Inducible Fli-1 gene deletion in adult mice modifies several myeloid lineage commitment decisions and accelerates proliferation arrest and terminal erythrocytic differentiation. Blood. 116: 4795-805. 7. Scotland, R.S. <i>et al.</i> (2011) Sex differences in resident immune cell phenotype underlie more efficient acute inflammatory responses in female mice. Blood. 118 (22): 5918-27. 8. White, H.N. and Meng, Q.H. (2012) Recruitment of a Distinct but Related Set of VH Sequences into the Murine CD21hi/CD23- Marginal Zone B Cell Repertoire to That Seen in the Class-Switched Antibody Response. J Immunol. 188: 287-93. 9. Reynaud, J.M. <i>et al.</i> (2014) Human herpesvirus 6A infection in CD46 transgenic mice: viral persistence in the brain and increased production of proinflammatory chemokines via Toll-like receptor 9. J Virol. 88: 5421-36. 10. Candolfi, M. <i>et al.</i> (2011) B cells are critical to T-cell-mediated antitumor immunity induced by a combined immune-stimulatory/conditionally cytotoxic therapy for glioblastoma. Neoplasia. 13: 947-60. 11. Takabayashi, H. <i>et al.</i> (2014) Anti-inflammatory activity of bone morphogenetic protein signaling pathways in stomachs of mice. Gastroenterology. 147: 396-406.e7. 12. Weiss-Gayet, M. <i>et al.</i> (2016) Notch Stimulates Both Self-Renewal and Lineage Plasticity in a Subset of Murine CD9High Committed Megakaryocytic Progenitors. PLoS One. 11 (4): e0153860. 13. Meng, Q.H. & White, H.N. (2017) CD21^{int} CD23⁺ follicular B cells express antigen-specific secretory IgM mRNA as primary and memory responses. Immunology. 151 (2): 211-8. 14. Baer, A. <i>et al.</i> (2016) Protein Phosphatase-1 regulates Rift Valley fever virus replication. Antiviral Res. 127: 79-89. 15. Mccubbrey, A.L. <i>et al.</i> (2016) MicroRNA-34a Negatively Regulates Efferocytosis by Tissue Macrophages in Part via SIRT1. J Immunol. 196 (3): 1366-75.

Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of reconstitution.
Acknowledgements	This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE-Alexa Fluor® 647 \(MCA1212P647\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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