

Datasheet: MCA1439SBV610

BATCH NUMBER 64736150

Description:	RAT ANTI MOUSE CD19:StarBright Violet 610
Specificity:	CD19
Format:	StarBright Violet 610
Product Type:	Monoclonal Antibody
Clone:	6D5
Isotype:	IgG2a
Quantity:	100 TESTS/0.5ml

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 product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse		
Product Form	Purified IgG conjugated to StarBright Violet 610 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Violet 610	403	607
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
	0.1% Pluronic F68		
	0.1% PEG 3350		
	0.05% Tween 20		

Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page.
Immunogen	Human K562 cell line transfected with murine CD19.
External Database Links	<p>UniProt: P25918 Related reagents</p> <p>Entrez Gene: 12478 Cd19 Related reagents</p>
Fusion Partners	Spleen cells from immunised rats were fused with cells of the P3X63.Ag8.653 myeloma cell line.
Specificity	<p>Rat anti Mouse CD19 antibody, clone 6D5 recognizes the murine CD19 cell surface antigen, a ~95 kDa glycoprotein expressed by B lymphocytes. Rat anti Mouse CD19 antibody, clone 6D5 recognizes the same, or a closely related epitope as clone Rat anti Mouse CD19 antibody, clone ID3 in cross-competition assays.</p> <p>StarBright Violet 670 conjugated Rat anti Mouse CD19 antibody, clone 6D5 (MCA1439SBV670) has been used successfully to label cells in an organ-on-chip platform by immunofluorescence (Cook et al. 2024 [preprint]).</p>
Flow Cytometry	Use 5µl of the suggested working dilution to label 0.5x10 ⁶ cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.
References	<ol style="list-style-type: none"> 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. 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. Bermudez-Fajardo, A. <i>et al.</i> (2011) The effect of <i>Chlamydomydia pneumoniae</i> Major Outer Membrane Protein (MOMP) on macrophage and T cell-mediated immune responses. Immunobiology. 216: 152-63. 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. 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. 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. 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. 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. *et al.* (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. *et al.* (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. *et al.* (2014) Anti-inflammatory activity of bone morphogenetic protein signaling pathways in stomachs of mice. [Gastroenterology. 147: 396-406.e7.](#)
12. Weiss-Gayet, M. *et al.* (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. Mccubbrey, A.L. *et al.* (2016) MicroRNA-34a Negatively Regulates Efferocytosis by Tissue Macrophages in Part via SIRT1. [J Immunol. 196 \(3\): 1366-75.](#)
15. Vila-Caballer, M. *et al.* (2019) Disruption of the CCL1-CCR8 axis inhibits vascular Treg recruitment and function and promotes atherosclerosis in mice. [J Mol Cell Cardiol. 132: 154-63.](#)
16. Domingues, C.S. *et al.* (2020) Host Genetics Background Influence in the Intragastric *Trypanosoma cruzi* Infection. [Front Immunol. 11: 566476.](#)
17. Cook, S.R. *et al.* (2025) A 3D-printed multi-compartment organ-on-chip platform with a tubing-free pump models communication with the lymph node. [Lab Chip. 25 \(2\): 155-174.](#)
18. Lepland, A. *et al.* (2025) Peptide-Drug Conjugate for Therapeutic Reprogramming of Tumor-Associated Macrophages in Breast Cancer. [Adv Sci \(Weinh\). 12 \(10\): e2410288.](#)

Storage	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1439SBV610
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

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

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

'M448272:260123'

Printed on 28 May 2026

© 2026 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)