

Datasheet: MCA2495A647

Description:	MOUSE ANTI HUMAN CD19:Alexa Fluor® 647
Specificity:	CD19
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	Bu12
Isotype:	IgG1
Quantity:	100 TESTS/1ml

Product Details

RRID AB_872031

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 Human

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 (NaN₃)
Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.05 mg/ml

Immunogen Human EB-4 Burkitt lymphoma cell line.

External Database Links
UniProt: [P15391](https://www.uniprot.org/entry/P15391) [Related reagents](#)

Entrez Gene:

[930](#) CD19 [Related reagents](#)

Fusion Partners	Spleen cells from immunized mice were fused with cells from the X63 AG8 653 plasmacytoma.
------------------------	-------------------------------------------------------------------------------------------

Specificity	Mouse anti Human CD19 antibody, clone Bu12 recognizes human CD19, a 95 kDa cell surface glycoprotein, which is expressed on cells of the B cell lineage and follicular dendritic cells but absent on plasma cells. CD19 is an important signal transduction molecule which is involved in the regulation of B lymphocyte development, activation and differentiation.
--------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul
-----------------------	------------------------------------------------------------------------------------

References	<ol style="list-style-type: none">1. Zhou, L. and Tedder, T. (1993) CD19 Workshop panel report. In leucocyte Typing V. White cell differentiation antigens. Oxford University press. p507 – 509.2. Smith SH <i>et al.</i> (1991) Activation of human B cells through the CD19 surface antigen results in homotypic adhesion by LFA-1-dependent and -independent mechanisms. Immunology. 73 (3): 293-7.3. Callard, R.E. <i>et al.</i> (1992) CD19 regulation of human B cell responses. B cell proliferation and antibody secretion are inhibited or enhanced by ligation of the CD19 surface glycoprotein depending on the stimulating signal used. J Immunol. 148 (10): 2983-7.4. Callard, R.E. <i>et al.</i> (1995) CD40 cross-linking inhibits specific antibody production by human B cells. Int Immunol. 7 (11): 1809-15.5. Flavell, D.J. <i>et al.</i> (1995) Preclinical studies with the anti-CD19-saporin immunotoxin BU12-SAPORIN for the treatment of human-B-cell tumours. Br J Cancer. 72 (6): 1373-9.6. Vallera, D. A. <i>et al.</i> (2004) Radiotherapy of CD19 expressing Daudi tumors in nude mice with Yttrium-90-labeled anti-CD19 antibody. Cancer Biother Radiopharm. 19 (1): 11-23.
-------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
----------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Guarantee	18 months from date of despatch
------------------	---------------------------------

Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, 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 #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 IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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

'M344202:190111'

Printed on 20 May 2019

© 2019 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)