

Datasheet: MCA2495A647

BATCH NUMBER 1611

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

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 (NaN ₃)		
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](#) [Related reagents](#)

Entrez Gene:

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

RRID

AB_872031

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

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 *et al.* (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. *et al.* (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. *et al.* (1995) CD40 cross-linking inhibits specific antibody production by human B cells. [Int Immunol. 7 \(11\): 1809-15.](#)
 5. Flavell, D.J. *et al.* (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. *et al.* (2004) Radiotherapy of CD19 expressing Daudi tumors in nude mice with Yttrium-90-labeled anti-CD19 antibody. [Cancer Biother Radiopharm. 19 \(1\): 11-23.](#)
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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

12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2495A647>
10041

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 \(BUF070B\)](#)

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