

## Datasheet: MCA2495F

<b>Description:</b>	MOUSE ANTI HUMAN CD19:FITC
<b>Specificity:</b>	CD19
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Bu12
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml		

Immunogen Human EB-4 Burkitt lymphoma cell line

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**External Database**

**Links**

**UniProt:**

[P15391](#)    [Related reagents](#)

**Entrez Gene:**

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

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**RRID**

AB\_844481

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**Fusion Partners**

Spleen cells from immunized mice were fused with cells from the X63 AG8 653 plasmacytoma

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**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.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**References**

1. 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.](#)
  2. 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.](#)
  3. Zhou, L. and Tedder, T. (1993) CD19 Workshop panel report. In leucocyte Typing V. White cell differentiation antigens. Oxford University press. p507 – 509.
  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. Thornton, C.A. *et al.* (2002) Expression of CD21 and CD23 during human fetal development. [Pediatr Res. 52 \(2\): 245-50.](#)
  7. 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**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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**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/MCA2495F>  
10041

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

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

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

**North & South** Tel: +1 800 265 7376

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M385808:210513'

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