

Datasheet: MCA2499PE

BATCH NUMBER 173413

Description:	MOUSE ANTI HUMAN CD21:RPE
Specificity:	CD21
Other names:	CR2
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	Bu33
Isotype:	IgG1
Quantity:	100 TESTS

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 - 1/2

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		
Species Cross Reactivity	Reacts with: Horse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 5% Sucrose
External Database Links	UniProt: P20023 Related reagents Entrez Gene: 1380 CR2 Related reagents
Synonyms	C3DR
Specificity	Mouse anti Human CD21, clone Bu33 recognizes human CD21, a ~145 kDa cell surface glycoprotein expressed by mature B lymphocytes, follicular dendritic cells, subsets of normal thymocytes and subsets of T cells. The CD21 molecule acts as a receptor for CD23, for complement components C3d, C3dg and iC3b and for Epstein Barr Virus. CD21 is part of the signalling complex that is linked to CD19, CD81 and phosphatidylinositol-3-kinase.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	1. Ling, N.R. <i>et al.</i> (1998) Origin and properties of soluble CD21 (CR2) in human blood. Clin Exp Immunol. 113 (3): 360-6. 2. Garland Publishing, Inc. (1998) Leucocyte Typing VI Garland Publishing, Inc. pp140-142 3. Wei, F. <i>et al.</i> (2001) A man who inherited his SRY gene and Leri-Weill dyschondrosteosis from his mother and neurofibromatosis type 1 from his father. Am J Med Genet. 102 (4): 353-8. 4. Mayall, S. <i>et al.</i> (2001) The anti-human CD21 antibody, Bu33, identifies equine B cells. J Comp Pathol. 124 (1): 83-7. 5. Thornton, C.A. <i>et al.</i> (2002) Expression of CD21 and CD23 during human fetal development. Pediatr Res. 52 (2): 245-50.
Storage	This product is shipped at ambient temperature. Prior to reconstitution store at +4°C. After reconstitution 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.
Guarantee	12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #20487 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA2499PE>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

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
'M440661:250523'

Printed on 19 Mar 2026

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