

## Datasheet: MCA837PE

**BATCH NUMBER 161199**

<b>Description:</b>	MOUSE ANTI BOVINE CD8:RPE
<b>Specificity:</b>	CD8
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CC63
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

#### Target Species

Bovine

#### Species Cross Reactivity

Reacts with: Sheep, Goat

**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 ml distilled water

#### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578

#### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P31783</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">281060</a> CD8A    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2075540
<b>Fusion Partners</b>	Spleen cells from an immunised mouse were fused with cells of the mouse NS1 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Bovine CD8 antibody, clone CC63</b> reacts with the bovine CD8 antigen expressed by a subset of T lymphocytes. The antibody precipitates molecules of ~34 kDa and ~38 kDa under reducing conditions. Clone CC63 has been reported as being suitable for use on formalin dichromate (FD5) fixed paraffin embedded tissue with amplification and antigen retrieval techniques ( <a href="#">Gutierrez et al. 1999</a> ).
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. MacHugh, N.D. &amp; Sopp P (1991) Individual antigens of cattle. Bovine CD8 (BoCD8). <a href="#">Vet Immunol Immunopathol. 27 (1-3): 65-9.</a></li> <li>2. Gutierrez, M. et al. (1999) The detection of CD2+, CD4+, CD8+, and WC1+ T lymphocytes, B cells and macrophages in fixed and paraffin embedded bovine tissue using a range of antigen recovery and signal amplification techniques. <a href="#">Vet Immunol Immunopathol. 71 (3-4): 321-34.</a></li> <li>3. Winkler, M.T. et al. (1999) Bovine herpesvirus 1 can infect CD4(+) T lymphocytes and induce programmed cell death during acute infection of cattle. <a href="#">J Virol. 73 (10): 8657-68.</a></li> <li>4. Winkler, M.T. et al. (2000) Persistence and reactivation of bovine herpesvirus 1 in the tonsils of latently infected calves. <a href="#">J Virol. 74 (11): 5337-46.</a></li> <li>5. Twizere, J.C. et al. (2000) Discordance between bovine leukemia virus tax immortalization <i>in vitro</i> and oncogenicity <i>in vivo</i>. <a href="#">J Virol. 74 (21): 9895-902.</a></li> <li>6. Harris, J. et al. (2002) Expression of caveolin by bovine lymphocytes and antigen-presenting cells. <a href="#">Immunology. 105: 190-5.</a></li> <li>7. Toman, M. et al. (2003) Immunological characteristics of cattle with <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> infection <a href="#">Vet. Med. – Czech, 48, 2003: 147–54.</a></li> <li>8. Vordermeier, H.M. et al. (2004) Cellular immune responses induced in cattle by heterologous prime-boost vaccination using recombinant viruses and bacille Calmette-Guérin. <a href="#">Immunology. 112: 461-70.</a></li> <li>9. Vitale, F. et al. (2006) ESAT-6 peptide recognition by bovine CD8+ lymphocytes of naturally infected cows in herds from southern Italy. <a href="#">Clin Vaccine Immunol. 13: 530-3.</a></li> <li>10. Fulton, B.E. Jr. et al. (2006) Dissemination of bovine leukemia virus-infected cells from</li> </ol>

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**Storage**

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

This product should be stored undiluted.

DO NOT FREEZE. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #20487 available at: <https://www.bio-rad-antibodies.com/SDS/MCA837PE>  
20487

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:RPE \(MCA929PE\)](#)

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

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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'M394984:220224'

**Printed on 20 Apr 2023**

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