

## Datasheet: MCA1651F

<b>Description:</b>	MOUSE ANTI BOVINE CD205:FITC
<b>Specificity:</b>	CD205
<b>Other names:</b>	DEC-205, WC6 ANTIGEN
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CC98
<b>Isotype:</b>	IgG2b
<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 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

**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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

#### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

#### Preparation

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

#### Buffer Solution

Phosphate buffered saline pH7.4

<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>RRID</b>	AB_647063
<b>Specificity</b>	<p><b>Mouse anti Bovine CD205 antibody, clone CC98</b> recognizes the bovine CD205 cell surface antigen, a ~210-220 kDa molecule expressed by T cells that are CD2+ve but not WC1+ve. CD205 is also expressed by B cells, and weakly stains B cell follicles.</p> <p>Bovine CD205 has previously been described as the WC6 antigen (<a href="#">Gliddon et al. 2004</a>).</p> <p>Dendritic cells (veiled cells) in afferent lymph are strong expressors of CD205 as are dendritic cells in various other tissues.</p>
<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>Howard, C.J. &amp; Naessens, J. (1993) Summary of workshop findings for cattle (tables 1 and 2). <a href="#">Vet Immunol Immunopathol. 39 (1-3): 25-47.</a></li> <li>Howard, C.J. et al. (1996) Afferent lymph veiled cells stimulate proliferative responses in allogeneic CD4+ and CD8+ T cells but not gamma delta TCR+ T cells. <a href="#">Immunology. 88 (4): 558-64.</a></li> <li>Naessens, J. et al. (1993) Cross-reactivity of workshop antibodies with cells from domestic and wild ruminants. <a href="#">Vet Immunol Immunopathol. 39 (1-3): 283-90.</a></li> <li>Gliddon, D.R. et al. (2004) DEC-205 expression on migrating dendritic cells in afferent lymph. <a href="#">Immunology. 111 (3): 262-72.</a></li> <li>Akesson, C.P. et al. (2008) Phenotypic characterisation of intestinal dendritic cells in sheep. <a href="#">Dev Comp Immunol. 32: 837-49.</a></li> <li>Ferret-Bernard, S. et al. (2011) Mesenteric lymph node cells from neonates present a prominent IL-12 response to CpG oligodeoxynucleotide via an IL-15 feedback loop of amplification. <a href="#">Vet Res. 42:19.</a></li> <li>Ferret-Bernard, S. et al. (2010) Cellular and molecular mechanisms underlying the strong neonatal IL-12 response of lamb mesenteric lymph node cells to R-848. <a href="#">PLoS One. 5: e13705.</a></li> <li>Fach, S.J. et al. (2007) Neonatal ovine pulmonary dendritic cells support bovine respiratory syncytial virus replication with enhanced interleukin (IL)-4 And IL-10 gene transcripts. <a href="#">Viral Immunol. 20: 119-30.</a></li> <li>Eicher, S.D. et al. (2011) β-Glucan plus ascorbic acid in neonatal calves modulates immune functions with and without <i>Salmonella enterica</i> serovar Dublin. <a href="#">Vet Immunol Immunopathol. 142: 258-64.</a></li> <li>Olivier, M. et al. (2012) Capacities of Migrating CD1b Lymph Dendritic Cells to Present <i>Salmonella</i> Antigens to Naive T Cells <a href="#">PLoS One. 7: e30430.</a></li> <li>Thonur, L. et al. (2012) Toll-like receptor gene expression in fresh and archived ovine pseudoafferent lymph DEC205+ dendritic cells. <a href="#">J Comp Pathol. 147 (2-3): 296-304.</a></li> <li>Sigmundsdottir, H. et al. (2007) DCs metabolize sunlight-induced vitamin D3 to</li> </ol>

- 'program' T cell attraction to the epidermal chemokine CCL27. [Nat Immunol. 8: 285-93.](#)
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15. Walters, A.A. *et al.* (2015) Assessment of the enhancement of PLGA nanoparticle uptake by dendritic cells through the addition of natural receptor ligands and monoclonal antibody. [Vaccine. 33 \(48\): 6588-95.](#)
16. Lund, H. *et al.* (2016) Transient Migration of Large Numbers of CD14(++) CD16(+) Monocytes to the Draining Lymph Node after Onset of Inflammation. [Front Immunol. 7: 322.](#)
17. Uhde, A-K. *et al.* (2017) Evaluation of a panel of antibodies for the immunohistochemical identification of immune cells in paraffin-embedded lymphoid tissues of new- and old-world camels. [Vet Immunol Immunopathol. 184: 42-53.](#)
18. Kornuta, C.A. *et al.* (2021) A plasmid encoding the extracellular domain of CD40 ligand and Montanide™ GEL01 as adjuvants enhance the immunogenicity and the protection induced by a DNA vaccine against BoHV-1. [Vaccine. 39 \(6\): 1007-17.](#)
19. Broberg, L. *et al.* (2021) Isolation and characterization of eosinophils in bovine blood and small intestine [Vet Immunol Immunopathol.. 242: 110352.](#)
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22. Kornuta, C.A. *et al.* (2021) MAN $\alpha$ 1-2MAN decorated liposomes enhance the immunogenicity induced by a DNA vaccine against BoHV-1. [Transbound Emerg Dis. 68 \(2\): 587-97.](#)

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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: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:FITC \(MCA691F\)](#)

**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)

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

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