

## Datasheet: MCA1651F

**BATCH NUMBER 152005**

<b>Description:</b>	MOUSE ANTI BOVINE CD205:FITC
<b>Specificity:</b>	CD205
<b>Other names:</b>	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

<b>Buffer Solution</b>	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> </ol>

12. Sigmundsdottir, H. *et al.* (2007) DCs metabolize sunlight-induced vitamin D3 to 'program' T cell attraction to the epidermal chemokine CCL27. [Nat Immunol. 8: 285-93.](#)
13. 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. [Viral Immunol. 20: 119-30.](#)
14. McNeilly, T.N. *et al.* (2006) Differential expression of cell surface markers by ovine respiratory tract dendritic cells. [J Histochem Cytochem. 54: 1021-30.](#)
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 camelids. [Vet Immunol Immunopathol. 184: 42-53.](#)

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**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. 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.

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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/MCA1651F>  
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**Regulatory** For research purposes only

## 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://www.bio-rad-antibodies.com/datasheets)

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