

## Datasheet: MCA6081

<b>Description:</b>	MOUSE ANTI BOVINE CD4
<b>Specificity:</b>	CD4
<b>Format:</b>	Con S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CACT138A
<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
Functional Assays			▪	

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

Bovine

### Species Cross Reactivity

Reacts with: Bison, Water Buffalo, 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

Concentrated tissue culture supernatant - liquid

### Preparation

Concentrated tissue culture supernatant clarified by filtration through a 0.2 micrometer filter

### Buffer Solution

Serum free tissue culture medium containing proprietary protein free supplement

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	ConA activated bovine lymphocytes
<b>Specificity</b>	<b>Mouse anti Bovine CD4, clone CACT138A</b> , recognizes bovine CD4. CD4 regulates T cell activation and acts as an accessory protein for MHC II and TCR interaction. It is a marker for bovine T helper cells. In cattle CD4+ T cells can also be found in mediastinal haemolymph nodes, lymph nodes and parafollicular lymphatic tissue ( <a href="#">Galeotti et al. 1993</a> ). Cattle infected with viral diarrhea virus had depleted numbers of CD4+ cells ( <a href="#">Endsley et al. 2002</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>Howard C.J. <i>et al.</i> (1991) Summary of workshop findings for leukocyte antigens of cattle. <a href="#">Vet Immunol Immunopathol. 27 (1-3): 21-7.</a></li> <li>Galeotti M. <i>et al.</i> (1993) Identification of cell types present in bovine haemolymph nodes and lymph nodes by immunostaining. <a href="#">Vet Immunol Immunopathol. 36 (4): 319-31.</a></li> <li>Kato-Mori, Y. <i>et al.</i> (2021) Characterization of a variant CD4 molecule in Japanese Black cattle. <a href="#">Vet Immunol Immunopathol. 232: 110167.</a></li> </ol>
<b>Storage</b>	Store at +4°C. DO NOT FREEZE. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20389 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6081">https://www.bio-rad-antibodies.com/SDS/MCA6081</a> 20389
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG1 (STAR132...) [RPE](#)

### Recommended Useful Reagents

[MOUSE ANTI BOVINE CD8a \(MCA6083\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
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