

Datasheet: MCA6081

Description:	MOUSE ANTI BOVINE CD4
Specificity:	CD4
Format:	Con S/N
Product Type:	Monoclonal Antibody
Clone:	CACT138A
Isotype:	IgG1
Quantity:	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.

	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 (NaN₃)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	ConA activated bovine lymphocytes
Specificity	Mouse anti Bovine CD4, clone CACT138A , 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 (Galeotti et al. 1993). Cattle infected with viral diarrhea virus had depleted numbers of CD4+ cells (Endsley et al. 2002).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> Howard C.J. <i>et al.</i> (1991) Summary of workshop findings for leukocyte antigens of cattle. Vet Immunol Immunopathol. 27 (1-3): 21-7. Galeotti M. <i>et al.</i> (1993) Identification of cell types present in bovine haemolymph nodes and lymph nodes by immunostaining. Vet Immunol Immunopathol. 36 (4): 319-31. Kato-Mori, Y. <i>et al.</i> (2021) Characterization of a variant CD4 molecule in Japanese Black cattle. Vet Immunol Immunopathol. 232: 110167.
Storage	Store at +4°C. DO NOT FREEZE. 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 #20389 available at: https://www.bio-rad-antibodies.com/SDS/MCA6081 20389
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Useful Reagents

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

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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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