

Datasheet: MCA6081

BATCH NUMBER 142895

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

0.09% Sodium Azide (NaN₃)

Stabilisers

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 10⁶ cells in 100ul

References

- Howard C.J. *et al.* (1991) Summary of workshop findings for leukocyte antigens of cattle. [Vet Immunol Immunopathol. 27 \(1-3\): 21-7.](#)
- Galeotti M. *et al.* (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. *et al.* (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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