

Datasheet: MCA1653F BATCH NUMBER 168667

Description:	MOUSE ANTI BOVINE CD4:FITC
Specificity:	CD4
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CC8
Isotype:	lgG2a
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

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		
Product Form	Purified IgG conjugate	ed to Fluorescein Isoth	niocyanate Isomer
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nn
	FITC	490	525
uffer Solution	supernatant  Phosphate buffered s	by affinity chromatogo	
	0.09% sodium azide (	ζ,	
reservative stabilisers	0.09% sodium azide ( 1% bovine serum albi	ζ,	
prox. Protein			

Immunogen	Bovine lymphocytes.	
External Database Links	UniProt:  A7YY52 Related reagents	
RRID	AB_321270	
Fusion Partners	Spleen cells from an immunized mouse were fused with cells of the mouse NS1 myeloma cell line.	
Specificity	Mouse anti Bovine CD4 antibody, clone CC8 recognizes bovine CD4, the homolog of human CD4 and immunoprecipitates a ~50 kDa molecule. The phenotype, tissue distribution and function of T-cells expressing the bovine CD4 antigen are similar to those in other species. However, expression on macrophages has not yet been detected. Mouse anti Bovine CD4 antibody, clone CC8 has been reported as being suitable for use on formalin dichromate (FD5) fixed paraffin embedded tissue with amplification and antigen	

retrieval techniques (Eskra et al. 1991).

A mutation in the bovine CD4 gene resulting in an amino acid substitution at A324 T, located in the D4 domain of the CD4 gene product can occur. This mutation results in lowered binding of Mouse anti Bovine CD4 antibody, clone CC8 to CD4 in Japanese Black (JB) cattle where this mutation has been identified (Kato-Mori, et al., 2020). CD4 in JB cattle can be identified using clone CACT138A (MCA6081) whose binding to bovine CD4 is unaffected by the A324T mutation (Kato-Mori, et al., 2020).

### Flow Cytometry

Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl

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Storage

ahead of print].

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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1653F">https://www.bio-rad-antibodies.com/SDS/MCA1653F</a> 10041
Regulatory	For research purposes only

# **Related Products**

# **Recommended Negative Controls**

MOUSE IgG2a NEGATIVE CONTROL:FITC (MCA929F)

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 Europe
 Tel: +49 (0) 89 8090 95 21

 America
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 Fax: +49 (0) 89 8090 95 50

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### Printed on 14 Oct 2024

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