

Datasheet: MCA1653F

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 <u>www.bio-</u> rad-antibodies.com/protocols.						
	· · · ·	Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	-			Neat		
	Where this product ha necessarily exclude its a guide only. It is reco system using appropri	s use in such mmended tha	procedure It the use	es. Suggested workir r titrates the product	ng dilutions are given as		
Target Species	Bovine						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	Fluorophore	Excitation M	ax (nm)	Emission Max (nm)			
	FITC	490		525			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin						
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml						
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 <i>et al.</i> 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 (<u>Kato-Mori, <i>et al.</i> 2020</u>). CD4 in JB cattle can be identified using clone CACT138A (<u>MCA6081</u>) whose binding to bovine CD4 is unaffected by the A324T mutation (<u>Kato-Mori, <i>et al.</i> 2020</u>).				
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in $100µl$				
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StorageThis 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.		
2 months from date of despatch		
tps://www.bio-rad-antibodies.com/SDS/MCA1653F		
or research purposes only		
1	2 months from date of despatch laterial Safety Datasheet documentation #10041 available at: <u>ttps://www.bio-rad-antibodies.com/SDS/MCA1653F</u> 0041 or research purposes only	

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL: FITC (MCA929F)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
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