

Datasheet: MCA837F BATCH NUMBER 1808

Description: MOUSE ANTI BOVINE CD8:FITC  Specificity: CD8  Format: FITC  Product Type: Monoclonal Antibody  Clone: CC63  Isotype: IgG2a  Quantity: 100 TESTS		
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Clone: CC63 Isotype: IgG2a	Format:	FITC
Isotype: IgG2a	Product Type:	Monoclonal Antibody
<u> </u>	Clone:	CC63
Quantity: 100 TESTS	Isotype:	lgG2a
	Quantity:	100 TESTS

## **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
Immunohistology - Frozen			•	
Immunohistology - Paraffin				

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Bovine			
Species Cross Reactivity	Reacts with: 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 of personal communications from the originators. Please refer to references indicated for further information.			viewed publications or
Product Form		ugated to Fluorescein Isotl	niocyanate Isomer 1	(FITC) - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	l
	FITC	490	525	_
Preparation	Purified IgG prepare	ared by affinity chromatog	raphy on Protein G f	rom tissue culture

Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
External Database Links	UniProt: P31783 Related reagents		
	Entrez Gene:  281060 CD8A Related reagents		
RRID	AB_321397		
Fusion Partners	Spleen cells from an immunised mouse were fused with cells of the mouse NS1 myeloma cell line.		
Specificity	Mouse anti Bovine CD8 antibody, clone CC63 reacts with the bovine CD8 antigen expressed by a subset of T lymphocytes. The antibody precipitates molecules of ~34 kDa and ~38 kDa under reducing conditions. Clone CC63 has been reported as being suitable for use on formalin dichromate (FD5) fixed paraffin embedded tissue with amplification and antigen retrieval techniques (Gutierrez et al. 1999).		
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.		
References	1. MacHugh, N.D. & Sopp P (1991) Individual antigens of cattle. Bovine CD8 (BoCD8).   Vet Immunol Immunopathol. 27 (1-3): 65-9.  2. Gutierrez, M. et al. (1999) The detection of CD2+, CD4+, CD8+, and WC1+ T lymphocytes, B cells and macrophages in fixed and paraffin embedded bovine tissue using a range of antigen recovery and signal amplification techniques.  Vet Immunol Immunopathol. 71 (3-4): 321-34.  3. Twizere, J.C. et al. (2000) Discordance between bovine leukemia virus tax immortalization in vitro and oncogenicity in vivo.  J Virol. 74 (21): 9895-902.  4. Winkler, M.T. et al. (1999) Bovine herpesvirus 1 can infect CD4(+) T lymphocytes and induce programmed cell death during acute infection of cattle.  J Virol. 73 (10): 8657-68.  5. Winkler, M.T. et al. (2000) Persistence and reactivation of bovine herpesvirus 1 in the tonsils of latently infected calves.  J Virol. 74 (11): 5337-46.  6. Sidders, B. et al. (2008) Screening of highly expressed mycobacterial genes identifies Rv3615c as a useful differential diagnostic antigen for the Mycobacterium tuberculosis complex.  Infect Immun. 76: 3932-9.  7. Sanchez, J. et al. (2011) Microscopical and immunological features of tuberculoid granulomata and cavitary pulmonary tuberculosis in naturally infected goats.  J Comp Pathol. 145 (2-3): 107-17.  8. La Manna, M.P. et al. (2011) Expansion of intracellular IFN-y positive lymphocytes		

during Mycoplasma agalactiae infection in sheep. Res Vet Sci. 91 (3): e64-7.

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dendritic cells can be generated with recombinant GM-CSF and separated on CD11b expression. J Immunol Methods. 339 (1): 1-10.

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Guarantee	12 months from date of despatch
	Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
	Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.
	This product should be stored undiluted.
Storage	Store at +4°C or at -20°C if preferred.

https://www.bio-rad-antibodies.com/SDS/MCA837F

For research purposes only

# **Related Products**

**Health And Safety** 

Information

Regulatory

## **Recommended Negative Controls**

MOUSE IgG2a NEGATIVE CONTROL:FITC (MCA929F)

Product inquiries: www.bio-rad-antibodies.com/technical-support

Material Safety Datasheet documentation #10041 available at:

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M369034:200529'

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