

Datasheet: MCA1654G

Description:	MOUSE ANTI BOVINE CD8 BETA
Specificity:	CD8 BETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CC58
Isotype:	IgG1
Quantity:	0.25 mg

Product Details

RRID AB_905995

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	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Functional Assays			▪	

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, Water Buffalo
N.B. Antibody reactivity and working conditions may vary between species.

Product Form Purified IgG - liquid

Preparation Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide

Carrier Free Yes

Approx. Protein IgG concentration 1.0 mg/ml

Concentrations

Specificity **Mouse anti Bovine CD8 beta antibody, clone CC58** recognizes an epitope associated with the bovine CD8 beta chain. CD8 is usually expressed as an α/β heterodimer. Mouse anti Bovine CD8 beta antibody, clone CC58 has been successfully used for the immunohistochemical detection of CD8 on formalin fixed, paraffin embedded placental tissue from water buffalo ([Cantón et al. 2014](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

References

1. Suraud, V. *et al.* (2008) Acute infection by conjunctival route with *Brucella melitensis* induces IgG+ cells and IFN-gamma producing cells in peripheral and mucosal lymph nodes in sheep. [Microbes Infect. 10: 1370-8.](#)
2. Howard, C.J. & Naessens, J. (1993) Summary of workshop findings for cattle (tables 1 and 2). [Vet Immunol Immunopathol. 39 \(1-3\): 25-47.](#)
3. Naessens, J. *et al.* (1997) Nomenclature and characterization of leukocyte differentiation antigens in ruminants. [Immunol Today. 18 \(8\): 365-8.](#)
4. Hein, W.R. *et al.* (1991) Summary of workshop findings for leukocyte antigens of sheep. [Vet Immunol Immunopathol. 27 \(1-3\): 28-30.](#)
5. Gerner, W. *et al.* (2009) Identification of major histocompatibility complex restriction and anchor residues of foot-and-mouth disease virus-derived bovine T-cell epitopes. [J Virol. 83: 4039-50.](#)
6. Gerner, W. *et al.* (2010) Sensitive detection of Foxp3 expression in bovine lymphocytes by flow cytometry. [Vet Immunol Immunopathol. 138: 154-8.](#)
7. MacHugh, N.D. and Sopp, P. (1991) Individual antigens of cattle. Bovine CD8 (BoCD8). [Vet Immunol Immunopathol. 27: 65-9.](#)
8. Soltys, J. and Quinn, M.T. (1999) Selective recruitment of T-cell subsets to the udder during staphylococcal and streptococcal mastitis: analysis of lymphocyte subsets and adhesion molecule expression. [Infect Immun. 67: 6293-302.](#)
9. Cantón, G.J. *et al.* (2014) Characterization of immune cell infiltration in the placentome of water buffaloes (*Bubalus bubalis*) infected with *neospora caninum* during pregnancy. [J Comp Pathol. 150: 463-8.](#)
10. Wattegedera, S.R. *et al.* (2017) Enhancing the toolbox to study IL-17A in cattle and sheep. [Vet Res. 48 \(1\): 20.](#)

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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Printed on 02 Jan 2019

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