

Datasheet: MCA2216PE

BATCH NUMBER 168257

Description:	MOUSE ANTI SHEEP CD8:RPE
Specificity:	CD8
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	38.65
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			Neat - 1/10

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.

Sheep					
Reacts with: Bovine	e, Goat				
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications					
personal communic further information.	cations from the originato	ors. Please refer to references i	ndicate		
Purified IgG conjug	ated to R. Phycoerythrin	(RPE) - lyophilized			
Reconstitute with 1 ml distilled water					
Fluorophore	Excitation Max (nm)	Emission Max (nm)			
RPE 488nm laser	496	578			
Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					
	Reacts with: Bovine N.B. Antibody reactivity is derived personal communic further information. Purified IgG conjug Reconstitute with 1 Fluorophore RPE 488nm laser	Reacts with: Bovine, Goat N.B. Antibody reactivity and working condition reactivity is derived from testing within our lapersonal communications from the originate further information. Purified IgG conjugated to R. Phycoerythring Reconstitute with 1 ml distilled water Fluorophore Excitation Max (nm) RPE 488nm laser 496	Reacts with: Bovine, Goat N.B. Antibody reactivity and working conditions may vary between species reactivity is derived from testing within our laboratories, peer-reviewed pub personal communications from the originators. Please refer to references in further information. Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized Reconstitute with 1 ml distilled water Fluorophore Excitation Max (nm) Emission Max (nm) RPE 488nm laser 496 578		

Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)
Stabilisers	1% bovine serum albumin
	5% sucrose
Immunogen	Ovine efferent lymphocytes.
RRID	AB_566897
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	Mouse anti Sheep CD8 antibody, clone 38.65 recognizes the ovine CD8 cell surface antigen, which is expressed by the cytotoxic/suppressor subset of T lymphocytes.
	Under reducing conditions, the antigens immunoprecipitated by Mouse anti Sheep CD8 antibody, clone 38.65 migrate at ~33 kDa and ~36 kDa.
Flow Cytometry	Use 10μl of the suggested working dilution to label 10 ⁶ cells in 100μl
References	1. Maddox, J.F. <i>et al.</i> (1985) Surface antigens, SBU-T4 and SBU-T8, of sheep T
	lymphocyte subsets defined by monoclonal antibodies. lmmunology.55 (4): 739-48.
	2. Mackay, C.R. <i>et al.</i> (1986) Three distinct subpopulations of sheep T lymphocytes. <u>Eur J</u>
	Immunol. 16 (1): 19-25.
	3. Mackay, C.R. et al. (1986) Thymocyte subpopulations during early fetal development in
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	identifies B cells and a unique lymphocyte subset. Cell Immunol. 110 (1): 46-55.
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	appearing late during thymic development. Eur J Immunol. 19 (8): 1477-83.
	6. Bruce, C.J. et al. (1999) Depletion of bovine CD8+ T cells with chCC63, a chimaeric
	mouse-bovine antibody. Vet Immunol Immunopathol. 71 (3-4): 215-31.

- mouse-bovine antibody. <u>Vet Immunol Immunopathol. 71 (3-4): 215-31.</u>

 7. Chan, S.S. *et al.* (2002) Generation and characterization of ovine dendritic cells derived from peripheral blood monocytes. <u>Immunology. 107: 366-72.</u>
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- 12. Kallapur, S.G. et al. (2011) Pulmonary and Systemic Inflammatory Responses to

Intraamniotic IL-1 alpha in fetal sheep. <u>Am J Physiol Lung Cell Mol Physiol.</u> 301(3):L285-95

- 13. Lybeck, K.R. *et al.* (2012) Intestinal Strictures, Fibrous Adhesions and High Local Interleukin-10 Levels in Goats Infected Naturally with *Mycobacterium avium* subsp. *paratuberculosis*. <u>J Comp Pathol</u>. 148: 157-72.
- 14. Nfon, C.K.*et al* (2012) Innate Immune Response to Rift Valley Fever Virus in Goats. PLoS Negl Trop Dis.6 (4): e1623.
- 15. Olsen, L. *et al.* (2015) The early intestinal immune response in experimental neonatal ovine cryptosporidiosis is characterized by an increased frequency of perforin expressing NCR1(+) NK cells and by NCR1(-) CD8(+) cell recruitment. Vet Res. 46: 28.
- 16. Goh, S. *et al.* (2016) Identification of *Theileria lestoquardi* Antigens Recognized by CD8+ T Cells. PLoS One. 11 (9): e0162571.
- 17. Arranz-Solís, D. *et al.* (2016) Systemic and local immune responses in sheep after *Neospora caninum* experimental infection at early, mid and late gestation. Vet Res. 47: 2.
- 18. Ramos, A. *et al.* (2018) Melatonin enhances responsiveness to Dichelobacter nodosus vaccine in sheep and increases peripheral blood CD4 T lymphocytes and IgG-expressing B lymphocytes. Vet Immunol Immunopathol. 206: 1-8.
- 19. Curina, G. *et al.* (2018) Evaluation of immune responses in mice and sheep inoculated with a live attenuated *Brucella melitensis*. REV1 vaccine produced in bioreactor. <u>Vet Immunol Immunopathol</u>. 198: 44-53.
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- 21. Wooldridge, A.L. *et al.* (2019) Maternal allergic asthma during pregnancy alters fetal lung and immune development in sheep: potential mechanisms for programming asthma and allergy. J Physiol. 597 (16): 4251-62.
- 22. Schwarz, E.R. *et al.* (2020) Experimental Infection of Mid-Gestation Pregnant Female and Intact Male Sheep with Zika Virus. <u>Viruses. 12 (3)Mar 07 [Epub ahead of print].</u>
- 23. Zhang, H. *et al.* (2020) Thiamine ameliorates inflammation of the ruminal epithelium of Saanen goats suffering from subacute ruminal acidosis. <u>J Dairy Sci. 103 (2): 1931-43.</u>
- 24. Ducournau, C. *et al.* (2020) Effective Nanoparticle-Based Nasal Vaccine Against Latent and Congenital Toxoplasmosis in Sheep. Front Immunol. 11: 2183.
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Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. 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 #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2216PE 20487

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:RPE (MCA929PE)

 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M423275:231010'

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