

Datasheet: MCA2216PE BATCH NUMBER 166541

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 <u>www.bio-rad-antibodies.com/protocols</u> .						
	Yes No Not Determined Sugges						
	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 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	Sheep						
Species Cross Reactivity	Reacts with: Bovine, Goat N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized						
Reconstitution	Reconstitute with 1 ml distilled water						
Max Ex/Em	Fluorophore	Excitation Ma	ix (nm) I	Emission Max (nm)			
	RPE 488nm laser	496		578			
Preparation	Purified IgG prepared supernatant	by affinity chro	omatogra	phy on Protein A fror	n tissue culture		

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 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	 Maddox, J.F. <i>et al.</i> (1985) Surface antigens, SBU-T4 and SBU-T8, of sheep T lymphocyte subsets defined by monoclonal antibodies. <u>Immunology. 55 (4): 739-48.</u> Mackay, C.R. <i>et al.</i> (1986) Three distinct subpopulations of sheep T lymphocytes. <u>Eur J Immunol. 16 (1): 19-25.</u> Mackay, C.R. <i>et al.</i> (1986) Thymocyte subpopulations during early fetal development in sheep. <u>J Immunol. 136 (5): 1592-9.</u> Mackay, C.R. <i>et al.</i> (1987) A monoclonal antibody to the p220 component of sheep LCA identifies B cells and a unique lymphocyte subset. <u>Cell Immunol. 110 (1): 46-55.</u> Mackay, C.R. <i>et al.</i> (1989) Gamma/delta T cells express a unique surface molecule appearing late during thymic development. <u>Eur J Immunol. 19 (8): 1477-83.</u> Bruce, C.J. <i>et al.</i> (1999) Depletion of bovine CD8+ T cells with chCC63, a chimaeric mouse-bovine antibody. <u>Vet Immunol Immunopathol. 71 (3-4): 215-31.</u> Chan, S.S. <i>et al.</i> (2002) Generation and characterization of ovine dendritic cells derived from peripheral blood monocytes. <u>Immunology. 107: 366-72.</u> Lybeck, K.R. <i>et al.</i> (2009) Neutralization of interleukin-10 from CD14(+) monocytes enhances gamma interferon production in peripheral blood mononuclear cells from Mycobacterium avium subsp. paratuberculosis-infected goats. <u>Clin Vaccine Immunol. 16</u> (7): 1003-11. Lybeck, K.R. <i>et al.</i> (2009) Neutralization of interleukin-10 from CD14(+) monocytes enhances gamma interferon production in peripheral blood mononuclear cells from Mycobacterium avium subsp. paratuberculosis-infected goats. <u>Clin Vaccine Immunol. 16; 1003-11.</u> Lybeck, K.R. <i>et al.</i> (2010) Immunoassay of lymphocyte subsets in ovine palatine tonsils. <u>Acta Histochem. 113(4):416-22</u> Elmouzi-Younes, J. <i>et al.</i> (2010) Ovine CD16+/CD14- blood lymphocytes present all the major characteristics of natural killer cells. <u>Vet Res. 41: 4.</u> Kallapur, S.G. <i>et al.</i> (2011) Pulmonary and Systemic

Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2216PE 20487
Guarantee	12 months from date of despatch
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.
	 Intraamniotic IL-1 alpha in fetal sheep. <u>Am J Physiol Lung Cell Mol Physiol.</u> 301(3):L285-95 13. Lybeck, K.R. <i>et al.</i> (2012) Intestinal Strictures, Fibrous Adhesions and High Local Interleukin-10 Levels in Goats Infected Naturally with <i>Mycobacterium avium</i> subsp. <i>paratuberculosis.</i> J Comp Pathol. 148: 157-72. 14. Nfon, C.K.<i>et al.</i> (2012) Innate Immune Response to Rift Valley Fever Virus in Goats. PLoS Neql Trop Dis 6 (4): e1623. 15. Olsen, L. <i>et al.</i> (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. <u>Vet Res. 46: 28.</u> 16. Goh, S. <i>et al.</i> (2016) Identification of <i>Theileria lestoquardi</i> Antigens Recognized by CD8+ T Cells. <u>PLoS One. 11 (9): e0162571.</u> 17. Arranz-Solis, D. <i>et al.</i> (2018) Melatonin enhances responsiveness to Dichelobacter nodosu: vaccine in sheep and increases peripheral blood CD4 T lymphocytes and IgG-expressing B lymphocytes. <u>Vet Immunol Immunopathol. 206: 1-8.</u> 19. Curina, G. <i>et al.</i> (2018) Levaluation of immune responses in mice and sheep inoculated with a live attenuated <i>Brucella melitensis.</i> REV1 vaccine produced in bioreactor. <u>Vet Immunol Immunopathol. 198: 44-53.</u> 20. Baliu-piqué, M. <i>et al.</i> (2019) Age-related distribution and dynamics of T-cells in blood and lymphoid tissues of goats. <u>Dev Comp Immunol. 93: 1-10.</u> 21. Wooldridge, A.L. <i>et al.</i> (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. <i>et al.</i> (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> 24. Ducournau, C. <i>et al.</i> (2020) Experimental Infection of Mid-Gestation Pregnant Female and Intact Male Sheep with Zika Virus. <u>Viruses. 12 (3)Mar 07 [Epub a</u>

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
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

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

Printed on 12 Apr 2024

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