

Datasheet: MCA2216F BATCH NUMBER 147847

Specificity:CD8Format:FITCProduct Type:Monoclonal AntibodyClone:38.65		
Format:FITCProduct Type:Monoclonal AntibodyClone:38.65	Description:	MOUSE ANTI SHEEP CD8:FITC
Product Type:Monoclonal AntibodyClone:38.65	Specificity:	CD8
Clone: 38.65	Format:	FITC
	Product Type:	Monoclonal Antibody
Isotype: IgG2a	Clone:	38.65
	lsotype:	lgG2a
Quantity: 0.1 mg	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.						
	Flow Cytometry	Yes	No	Not Determined	Suggested Dilution Neat - 1/10		
		- not been to	atad far	use in a particular teal			
	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	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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	Fluorophore FITC	Excitation Ma 490	x (nm)	Emission Max (nm) 525			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered sa	lline					

Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Ovine efferent lymphocytes.
RRID	AB_321147
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 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
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> (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> Mackay, C.R. <i>et al.</i> (1986) Thymocyte subpopulations during early fetal development in sheep. <u>J Immunol. 136 (5): 1592-9.</u> Breugelmans, S. <i>et al.</i> (2010) Immunoassay of lymphocyte subsets in ovine palatine tonsils. <u>Acta Histochem. 113(4):416-22</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 (7): 1003-11.</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> 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> 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> Kallapur, S.G. <i>et al.</i> (2011) Pulmonary and Systemic Inflammatory Responses to Intraamniotic IL-1 alpha in fetal sheep. <u>Am J Physiol Lung Cell Mol Physiol. 301(3):L285-95</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> Nfon, C.K.<i>et al</i> (2012) Innate Immune Response to Rift Valley Fever Virus in Goats. <u>PLoS Negl Trop Dis.6 (4): e1623.</u> 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> <u>J Comp Pathol. 148: 157-72.</u> 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> 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> Arranz-Solís, D. <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> Schwarz, E.R. <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> Zhang, H. <i>et al.</i> (2020) Thiamine ameliorates inflammation of the ruminal epithelium of Saanen goats suffering from subacute ruminal acidosis. J Dairy Sci. 103 (2): 1931-43.
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. This product is photosensitive and
	should be protected from light.
	Avoid repeated freezing and thawing as this may denature the antibody. 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 #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2216F 10041
Regulatory	For 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
	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

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