

Datasheet: MCA2430F BATCH NUMBER 1610

Description:	MOUSE ANTI BOVINE CD25:FITC			
Specificity:	CD25			
Other names:	IL-2R ALPHA CHAIN			
Format:	FITC			
Product Type:	Monoclonal Antibody			
Clone:	IL-A111			
Isotype:	lgG1			
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-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	•			Neat - 1/5	
	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 N.B. Antibody reactivity a reactivity is derived from personal communication further information.	testing wit	hin our la	boratories, peer-revie	ewed publications or	
Product Form	Purified IgG conjugated	to Fluoreso	cein Isoth	iocyanate Isomer 1 (F	FITC) - liquid	
Preparation	Purified IgG prepared by supernatant	affinity ch	romatogra	aphy on Protein A froi	m tissue culture	
Buffer Solution	Phosphate buffered salir	ie				
Preservative	0.09% Sodium Azide					

Stabilisers	1% Bovine Serum Albumin				
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml				
External Database Links	UniProt: P12342 Related reagents Entrez Gene: 281861 IL2RA Related reagents				
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 myeloma cell line.				
Specificity	Mouse anti Bovine CD25 antibody, clone IL-A111 recognizes the bovine CD25 cell surface antigen, a ~55 kDa glycoprotein also known as Interleukin-2 receptor alpha chain. Bovine CD25 is expressed by activated T cells.				
	Clone IL-A111 is reported to block the IL-2 driven proliferation of Con A-induced blast cells/ bovine lymphocytes (<u>Naessens <i>et al.</i> 1992</u>).				
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul				
References	 Naessens, J. <i>et al.</i> (1992) Selection of BoCD25 monoclonal antibodies by screening mouse L cells transfected with the bovine p55-interleukin-2 (IL-2) receptor gene. Immunology 76: 305-309. Howard, C.J. <i>et al.</i> (1993) Summary of workshop findings for cattle (Tables 1 and 2). Vet Immunol. Immunopathol. 39:25-48 Howard, C.J. <i>et al.</i> (1997) Identification of two distinct populations of dendritic cells in afferent lymph that vary in their ability to stimulate T cells. J. Immunol. 159: 5372-7382. Naessens, J. <i>et al.</i> (1993) Cross-reactivity of workshop antibodies with cells from domestic and wild ruminants. Vet. Immunol. Immunopathol. 39: 283-290. Evans, C.W. <i>et al.</i> (1994) Antigen recognition and activation of ovine gamma delta T cells. Immunology. 82: 229-237. Campbell, J.D.M. <i>et al.</i> (1998) A novel cell surface proliferation- associated marker expressed on T cells and up-regulated on germinal center B cells. J. Leukoc. Biol. 63: 567-574. Connelley, T. <i>et al.</i> (2011) NKp46 defines ovine cells that have characteristics corresponding to NK cells. Vet Res. Feb 42: 37. Menge, C. <i>et al.</i> (2004) Phenotypic and functional characterization of intraepithelial lymphocytes in a bovine ligated intestinal loop model of enterohaemorrhagic Escherichia coli infection. J Med Microbiol. 53: 573-9. Rhodes, S.G. <i>et al.</i> (1999) Differential cytokine responses of CD4+ and CD8+ T cells in response to bovine viral diarrhoea virus in cattle. J Gen Virol. 80 : 1673-9. Piper, E.K. <i>et al.</i> (2009) Immunological profiles of Bos taurus and Bos indicus cattle infested with the cattle tick, Rhipicephalus (Boophilus) microplus. <u>Clin Vaccine Immunol. 16: 1074-86.</u> 				

 11. Woolums, A.R. <i>et al.</i> (2013) Effect of calf age and administration route multivalent modified-live virus vaccine on humoral and cell-mediated imm following subsequent administration of a booster vaccination at weaning i Am J Vet Res. 74: 343-54. 12. Mcinnes, E. <i>et al.</i> (1999) Phenotypic analysis of local cellular response infected with bovine respiratory syncytial virus. Immunology. 96: 396-403. 13. Maślanka, T. <i>et al.</i> (2012) The presence of CD25 on bovine WC1+ ga is positively correlated with their production of IL-10 and TGF-beta, but not Pol J Vet Sci. 15: 11-20. 14. Menge, C. <i>et al.</i> (2003) Verotoxin 1 from Escherichia coli affects Gb3/ lymphocytes independent of interleukin-2, tumor necrosis factor-alpha, ar alpha. Exp Biol Med (Maywood). 228: 377-86. 15. Menge, C. <i>et al.</i> (1999) Shiga toxin 1 from Escherichia coli blocks act proliferation of bovine lymphocyte subpopulations in vitro. Infect Immun. 6 16. Constantinoiu, C.C. <i>et al.</i> (2010) Local immune response against larv Rhipicephalus (Boophilus) microplus in Bos taurus indicus and Bos tauru Int J Parasitol. 40: 865-75. 17. Maślanka, T. <i>et al.</i> (2012) The presence of CD25 on bovine WC1+ γδ positively correlated with their production of IL-10 and TGF-β, but not IFN 15 (1): 11-20. 	in beef calves. ses in calves ammadelta T cells ot IFN-gamma. b/CD77+ bovine nd interferon- tivation and <u>67: 2209-17.</u> vae of us taurus cattle. 5 T cells is
18. Brodzki, P. <i>et al.</i> (2014) Phenotyping of leukocytes and granulocyte a phagocytic activity in the peripheral blood and uterus of cows with endom	•
 Theriogenology. 82 (3): 403-10. 19. Zoldan, K. <i>et al.</i> (2014) Increase of CD25 expression on bovine neutr with disease severity in post-partum and early lactating dairy cows. Dev (47 (2): 254-63. 20. Kang, H.J. <i>et al.</i> (2016) Effects of Ambient Temperature on Growth Peression Metabolites, and Immune Cell Populations in Korean Cattle Steers J Anim Sci. 29 (3): 436-43. 	Comp Immunol. Performance,
Storage Store at +4°C or at -20°C if preferred.	
Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive an protected from light. Avoid repeated freezing and thawing as this may denature the antibody. S product contain a precipitate we recommend microcentrifugation before u	Should this
Guarantee 18 months from date of despatch.	
Health And Safety Material Safety Datasheet documentation available at: Information https://www.bio-rad-antibodies.com/SDS/MCA2430F Material Safety Datasheet Documentation #10041 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf	
Regulatory For research purposes only	

Related Products

MOUSE IgG1 NEGATIVE CONTROL: FITC (MCA928F)

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	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

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