Datasheet: MCA2372B BATCH NUMBER 0812

Description:	MOUSE ANTI BOVINE INTERLEUKIN-4:Biotin
Specificity:	IL-4
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	CC314
Isotype:	lgG2b
Quantity:	0.25 mg

Product Details

Applications	This product has been re derived from testing withi communications from the information. For general rad-antibodies.com/proto	n our labo originato protocol re	oratories, j rs. Please	peer-reviewed publica refer to references in	tions or personal dicated for further
		Yes	No	Not Determined	Suggested Dilution
	Immunohistology - Frozen				
	Immunohistology - Paraffin				
	ELISA				1ug/ml - 5ug/ml
	Immunoprecipitation				
	Western Blotting				
Target Species	Where this antibody has necessarily exclude its us a guide only. It is recomn system using appropriate Bovine	se in such nended th	procedur at the use	es. Suggested workin titrates the antibody	g dilutions are given as
Species Cross Reactivity	Reacts with: Goat, Sheep N.B. Antibody reactivity a reactivity is derived from personal communications further information.	and workin testing wit	thin our la	boratories, peer-revie	wed publications or
Product Form	Purified IgG conjugated t	o Biotin -	liquid		
Preparation	Purified IgG prepared by supernatant	affinity ch	romatogra	aphy on Protein A fror	n tissue culture

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant bovine IL-4.
External Database Links	UniProt: <u>P30367</u> <u>Related reagents</u> Entrez Gene: <u>280824</u> IL4 <u>Related reagents</u>
RRID	AB_2127032
Fusion Partners	Spleen cells form immunised BALB/c mice were fused with cells of the SP2/0 myeloma cell line.
Specificity	Mouse anti Bovine interleukin-4 antibody, clone CC314 recognizes bovine intetleukin-4 (IL-4), also known as B-cell stimulatory factor 1. IL-4 is expressed by a range of cells including T and B cells, macrophages and monocytes. It plays an important role in the regulation of bovine T and B cell responses. Bovine interleukin-4 is a 15 kDa, 135 amino acid peptide which is processed to a mature secreted form with the cleavage of a 24 amino acid, N-terminal signal peptide resulting in a 12.6 kDa active cytokine, the apparent MW may be altered by glycosylation (Heussler <i>et al.</i> 1992).
	IL-4 is expressed by a range of cells including T and B cells, macrophages and monocytes. It plays an important role in the regulation of bovine T and B cell responses.
	Mouse anti Bovine interleukin-4, clone CC314 has been used successfully as a detection antibody in a sandwich ELISA with Mouse anti Bovine IL-4 antibody, clone CC313 (MCA2371) as a coating reagent both with bovine (Stabel <i>et al.</i> 2011) and ovine samples (Olivier <i>et al.</i> 2012). Clones CC313 and CC314 have been used in the reverse configuration for the measurement of interleukin-4 in caprine samples (Marinaro <i>et al.</i> 2012).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
ELISA	This biotin conjugate may be used as detection reagent in sandwich ELISA assays for bovine IL-4 with MCA2371 as capture reagent, and recombinant bovine IL-4 (PBP006) as a standard.
References	1. Hope, J.C. <i>et al.</i> (2005) Development of detection methods for ruminant interleukin (IL)-4. <u>J Immunol Methods. 301 (1-2): 114-23.</u>

		responses sp	pecific for	Anaplasma marginale r	najor surface	nce of CD4+ T lymphocyte protein-2 (MSP2) in MSP2 nunol. 174 (11): 6702-15.	
		 Stabel JR paratubercule avium subsp Stabel, J.F neonatal calv Clin Vaccine Marinaro, herpesvirus i Olivier, M. Salmonella a Cassady-O Stimulation o 	et al. (20 osis Antig . avium, 1 R. et al. (2 ves with a Immunol M. et al. (20 et al. (20 et al. (20 intigens t Cain, R.L of Bovine	13) Disparate Host Imm gens in Calves Inoculate <i>M. kansasii</i> and <i>M. bovis</i> 2011) Mediation of host a heat-killed <i>Mycobacter</i> . <u>18: 2079-89.</u> (2012) Antigen-specific I goats. <u>Res Vet Sci. 93: 6</u>	unity to <i>Myco</i> d with <i>M. aviu</i> <u>c Clin Vaccine</u> mmune respo- <i>ium avium</i> su FN-gamma a <u>62-7.</u> ting CD1b+ ly <u>ne. 7: e30430</u> of Antigen-Sp ostatin from <i>A</i>	bbacterium avium subsp. um subsp. paratuberculosis, <u>e Immunol. 20 (6): 848-57.</u> onses after immunization of bsp. paratuberculosis vaccin and IL-4 production in caprine rmph dendritic cells to presen <u>b.</u> ecific and Nonspecific Attaching and Effacing	
Storage		Store at +4°(Storage in fro This product	C or at -2 ost-free fi should b antibody	0°C if preferred. reezers is not recommer e stored undiluted. Avoid s Should this product co	nded. d repeated fre	eezing and thawing as this m	
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/MCA2372B 10041					
Regulatory For		For research	purpose				
rth & South nerica	Tel: +1 800 265 Fax: +1 919 87 Email: antibody		Vorldwide om	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio	Europe -rad.com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.c	
To find a b	atch/lot spec	ific datasheet for	this produ	uct, please use our online 'M366736:200529'	search tool at:	bio-rad-antibodies.com/datashe	

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