

## Datasheet: MCA2170F BATCH NUMBER 148226

Description:	ription: MOUSE ANTI CHICKEN Bu-1a:FITC		
Specificity:	Bu-1a		
Other names:	BURSAL ANTIGEN 1 A		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	L22		
lsotype:	lgG1		
Quantity:	0.1 mg		

## **Product Details**

Applications	This product has been	reported to work in	the following applicatior	ns. 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.						
		Yes No	Not Determined	Suggested Dilution			
	Flow Cytometry	•		1/20 - 1/80			
	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	Chicken						
Species Cross	Reacts with: Quail						
Reactivity	Does not react with:Turkey, Guinea Fowl						
	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	Excitation Max (nm)	Emission Max (nm)				
	FITC	490	525				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture						
	supernatant						

Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin				
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml				
Immunogen	Chicken Bursa cells.				
External Database Links	UniProt: <u>Q90746</u> <u>Related reagents</u>				
RRID	AB_2234729				
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0-Ag14 myeloma cell line.				
Specificity	<b>Mouse anti Chicken Bu-1a, clone L22</b> recognises the 'a' allele of the polymorphic cell surface antigen Bu-1, also known as chB6. Bu-1a is a 70 kDa alloantigen expressed on B cells and a subset of macrophages. Bu-1 is expressed on B cell precursors at early stages of development (Houssaint <i>et al.</i> 1991). Weak cross-reactivity with Bu-1b may be seen at higher antibody levels. This may be removed by appropriate titration. Mouse anti chicken BU-1a, clone L22 cross reacts with quail Bu-1 but does not appear reactive with either turkey or guinea fowl tissues (Igyarto <i>et al.</i> 2008)				
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.				
References	<ol> <li>Pink, J.R. &amp; Rijnbeek, A.M. (1983) Monoclonal antibodies against chicken lymphocyte surface antigens. <u>Hybridoma. 2: 287-96.</u></li> <li>Chaussé, A.M. <i>et al.</i> (2011) Expression of toll-like receptor 4 and downstream effectors in selected cecal cell subpopulations of chicks resistant or susceptible to salmonella carrier state. <u>Infect Immun. 79: 3445-54.</u></li> <li>Houssaint, E. <i>et al.</i> (1989) Bu-1 antigen expression as a marker for B cell precursors in chicken embryos. <u>Eur J Immunol. 19 (2): 239-43.</u></li> <li>Tregaskes, C.A. <i>et al.</i> (1996) Chicken B-cell marker chB6 (Bu-1) is a highly glycosylated protein of unique structure. <u>Immunogenetics. 44: 212-7.</u></li> <li>Houssaint, E. <i>et al.</i> (1991) Early separation of B and T lymphocyte precursors in chick embryo. <u>J Exp Med. 174: 397-406.</u></li> <li>Igyártó, B.Z. <i>et al.</i> (2008) Identification of the avian B-cell-specific Bu-1 alloantigen by a novel monoclonal antibody. <u>Poult Sci. 87: 351-5.</u></li> <li>Veromaa, T. <i>et al.</i> (1988) Monoclonal antibodies against chicken Bu-1a and Bu-1b alloantigens. <u>Hybridoma. 7: 41-8.</u></li> <li>Chaussé, A.M. <i>et al.</i> (2014) Susceptibility to Salmonella carrier-state: a possible Th2 response in susceptible chicks. <u>Vet Immunol Immunopathol. 159: 16-28.</u></li> <li>Balic, A. <i>et al.</i> (2014) Visualisation of chicken macrophages using transgenic reporter</li> </ol>				

		genes: insights into the development of the avian macrophage lineage. <u>Development. 141</u> 3255-65.					
		10. Luna-Acosta, J.L. <i>et al.</i> (2015) Direct antiapoptotic effects of growth hormone are mediated by PI3K/AKT pathway in the chicken bursa of Fabricius. <u>Gen Comp Endocrinol.</u> pij: S0016-6480(15)00204-X.					
		11. Jarosz, Ł. <i>et al.</i>	(2017) The effect of feed	supplementati	on with zinc chelate and zinc		
		sulphate on selected humoral and cell-mediated immune parameters and cytokine					
		concentration in bro	iler chickens. <u>Res Vet Sci</u>	<u>. 112: 59-65.</u>			
		12. Smialek, M. <i>et a</i>	al. (2017) Immunological a	spects of the	efficiency of protectotype		
		vaccination strategy 13. Jarosz, Ł.S <i>et a</i> chelate and copper plasma superoxide chickens. <u>J Anim Pl</u>	/ against chicken infectious /. (2018) The effect of feed sulphate on selected hum dismutase activity, cerulop hysiol Anim Nutr (Berl). 10	s bronchitis. <u>B</u> d supplementa loral and cell-r blasmin and cy <u>2 (1): e326-e3</u>	MC Vet Res. 13 (1): 44. ation with a copper-glycine mediated immune parameters, rtokine concentration in broiler 36.		
Storage		Store at +4°C or at -20°C if preferred.					
		This product should	be stored undiluted.				
		Storage in frost-free should be protected	e freezers is not recommer I from light.	nded. This pro	duct is photosensitive and		
		Avoid repeated free product contain a p	zing and thawing as this n recipitate we recommend i	nay denature microcentrifug	the antibody. Should this ation before use.		
Guarantee 12 months from date		e of despatch					
Health And Safety Information		Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2170F 10041					
Regulatory For research pur		For research purpos	ses only				
North & South America	Tel: +1 800 265 Fax: +1 919 87 Email: antibody	5 7376 Worldwide 8 3751 v_sales_us@bio-rad.com	<ul> <li>Tel: +44 (0)1865 852 700</li> <li>Fax: +44 (0)1865 852 739</li> <li>Email: antibody_sales_uk@bic</li> </ul>	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com		
America To find a b	Fax: +1 919 87 Email: antibody atch/lot spec	8 3751 ′_sales_us@bio-rad.com ific datasheet for this pro	Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bic oduct, please use our online 'M366280:200529'	o-rad.com search tool at:	Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.con bio-rad-antibodies.com/datashee		

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