

## Datasheet: MCA2170F

<b>Description:</b>	MOUSE ANTI CHICKEN Bu-1a:FITC
<b>Specificity:</b>	Bu-1a
<b>Other names:</b>	BURSAL ANTIGEN 1 A
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	L22
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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 [www.bio-rad-antibodies.com/protocols](http://www.bio-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.

<b>Target Species</b>	Chicken		
<b>Species Cross Reactivity</b>	Reacts with: Quail Does not react with: Turkey, Guinea Fowl <b>N.B.</b> Antibody reactivity and working conditions may vary between species.		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Chicken Bursa cells.		

**External Database  
Links**

**UniProt:**

[Q90746](#)   [Related reagents](#)

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**Fusion Partners**

Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0-Ag14 myeloma cell line.

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**Specificity**

**Mouse anti Chicken Bu-1a, clone L22** 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 \*et al.\* 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 \*et al.\* 2008](#))

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Pink, J.R. & Rijnbeek, A.M. (1983) Monoclonal antibodies against chicken lymphocyte surface antigens. [Hybridoma. 2: 287-96.](#)
  2. Chaussé, A.M. *et al.* (2011) Expression of toll-like receptor 4 and downstream effectors in selected cecal cell subpopulations of chicks resistant or susceptible to salmonella carrier state. [Infect Immun. 79: 3445-54.](#)
  3. Houssaint, E. *et al.* (1989) Bu-1 antigen expression as a marker for B cell precursors in chicken embryos. [Eur J Immunol. 19 \(2\): 239-43.](#)
  4. Tregaskes, C.A. *et al.* (1996) Chicken B-cell marker chB6 (Bu-1) is a highly glycosylated protein of unique structure. [Immunogenetics. 44: 212-7.](#)
  5. Houssaint, E. *et al.* (1991) Early separation of B and T lymphocyte precursors in chick embryo. [J Exp Med. 174: 397-406.](#)
  6. Igyártó, B.Z. *et al.* (2008) Identification of the avian B-cell-specific Bu-1 alloantigen by a novel monoclonal antibody. [Poult Sci. 87: 351-5.](#)
  7. Veromaa, T. *et al.* (1988) Monoclonal antibodies against chicken Bu-1a and Bu-1b alloantigens. [Hybridoma. 7: 41-8.](#)
  8. Chaussé, A.M. *et al.* (2014) Susceptibility to Salmonella carrier-state: a possible Th2 response in susceptible chicks. [Vet Immunol Immunopathol. 159: 16-28.](#)
  9. Balic, A. *et al.* (2014) Visualisation of chicken macrophages using transgenic reporter genes: insights into the development of the avian macrophage lineage. [Development. 141: 3255-65.](#)
  10. Luna-Acosta, J.L. *et al.* (2015) Direct antiapoptotic effects of growth hormone are mediated by PI3K/AKT pathway in the chicken bursa of Fabricius. [Gen Comp Endocrinol. pii: S0016-6480\(15\)00204-X.](#)
  11. Jarosz, Ł. *et al.* (2016) The effect of feed supplementation with zinc chelate and zinc sulphate on selected humoral and cell-mediated immune parameters and cytokine concentration in broiler chickens. [Res Vet Sci. 112: 59-65.](#)
  12. Smialek, M. *et al.* (2017) Immunological aspects of the efficiency of protectotype vaccination strategy against chicken infectious bronchitis. [BMC Vet Res. 13 \(1\): 44.](#)
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**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.

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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
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<b>Regulatory</b>	For research purposes only
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