

Datasheet: MCA2170F

Description:	MOUSE ANTI CHICKEN Bu-1a:FITC
Specificity:	Bu-1a
Other names:	BURSAL ANTIGEN 1 A
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	L22
Isotype:	IgG1
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 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.

Target Species

Chicken

Species Cross Reactivity

Reacts with: Quail

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: Q90746 Related reagents
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	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 <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 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Pink, J.R. & Rijnbeek, A.M. (1983) Monoclonal antibodies against chicken lymphocyte surface antigens. Hybridoma. 2: 287-96. 2. 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. Infect Immun. 79: 3445-54. 3. Houssaint, E. <i>et al.</i> (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. <i>et al.</i> (1996) Chicken B-cell marker chB6 (Bu-1) is a highly glycosylated protein of unique structure. Immunogenetics. 44: 212-7. 5. Houssaint, E. <i>et al.</i> (1991) Early separation of B and T lymphocyte precursors in chick embryo. J Exp Med. 174: 397-406. 6. Igyártó, B.Z. <i>et al.</i> (2008) Identification of the avian B-cell-specific Bu-1 alloantigen by a novel monoclonal antibody. Poult Sci. 87: 351-5. 7. Veromaa, T. <i>et al.</i> (1988) Monoclonal antibodies against chicken Bu-1a and Bu-1b alloantigens. Hybridoma. 7: 41-8. 8. Chaussé, A.M. <i>et al.</i> (2014) Susceptibility to Salmonella carrier-state: a possible Th2 response in susceptible chicks. Vet Immunol Immunopathol. 159: 16-28. 9. Balic, A. <i>et al.</i> (2014) Visualisation of chicken macrophages using transgenic reporter

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11. Jarosz, Ł. *et al.* (2017) 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.](#)

13. Jarosz, Ł.S *et al.* (2018) The effect of feed supplementation with a copper-glycine chelate and copper sulphate on selected humoral and cell-mediated immune parameters, plasma superoxide dismutase activity, ceruloplasmin and cytokine concentration in broiler chickens. [J Anim Physiol Anim Nutr \(Berl\). 102 \(1\): e326-e36.](#)

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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