

Datasheet: MCA2170PE

Description:	MOUSE ANTI CHICKEN Bu-1a:RPE
Specificity:	Bu-1a
Other names:	BURSAL ANTIGEN 1 A
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	L22
Isotype:	IgG1
Quantity:	100 TESTS

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	■			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	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.								
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized								
Reconstitution	Reconstitute with 1.0 ml distilled water								
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
RPE 488nm laser	496	578							
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 5% Sucrose								
Immunogen	Chicken Bursa cells.								

**External Database
Links**

UniProt:

[Q90746](#) [Related reagents](#)

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 *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](#))

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

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

Prior to reconstitution store at +4°C.
After reconstitution store at +4°C.
DO NOT FREEZE.
This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

12 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation #10075 available at:
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

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