

## Datasheet: MCA5764

<b>Description:</b>	MOUSE ANTI CHICKEN Bu-1a/b
<b>Specificity:</b>	Bu-1a/b
<b>Other names:</b>	BURSAL ANTIGEN 1 A/B
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AV20
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.25 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	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Functional Assays			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Chicken
<b>Species Cross Reactivity</b>	Does not react with: Quail, Turkey, Guinea Fowl
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant
<b>Buffer Solution</b>	Borate buffered saline
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 0.5mg/ml

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**Immunogen** Bursal cells from day old H.B15 (Bu-1a/b) chickens.

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**External Database Links**

**UniProt:**

[Q90747](#)

[Related reagents](#)

[Q90746](#)

[Related reagents](#)

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**RRID** AB\_10720221

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**Specificity** **Mouse anti Chicken Bu-1a/b antibody, clone AV20** recognizes Chicken Bu-1a/b, also known as chB6, a type 1 transmembrane protein.

Bu-1 is a product of two alleles, Bu-1a and Bu-1b, clone AV20 recognises both alleles. The Bu-1 antigen is expressed by chicken B-cells throughout most of their development and by a subset of monocytes and macrophages. The antigen is absent from erythrocytes, granulocytes and thrombocytes. In addition to clone AV20, [clone L22](#) that recognises Bu-1a but not Bu-1b is available.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**References**

1. Tregaskes, C.A. *et al.* (1996) Chicken B-cell marker chB6 (Bu-1) is a highly glycosylated protein of unique structure. [Immunogenetics. 44 \(3\): 212-7.](#)
2. Baigent, S.J. & Davison, T.F. (1999) Development and composition of lymphoid lesions in the spleens of Marek's disease virus-infected chickens: Association with virus spread and the pathogenesis of Marek's disease. [Avian Pathol. 28 \(3\): 287-300.](#)
3. Barrow, A.D. *et al.* (2003) Infection of macrophages by a lymphotropic herpesvirus: a new tropism for Marek's disease virus. [J Gen Virol. 84 \(Pt 10\): 2635-45.](#)
4. Tregaskes, C.A. *et al.* (2005) Conservation of biological properties of the CD40 ligand, CD154 in a non-mammalian vertebrate. [Dev Comp Immunol. 29 \(4\): 361-74.](#)
5. Igyártó BZ *et al.* (2008) Identification of the avian B-cell-specific Bu-1 alloantigen by a novel monoclonal antibody. [Poult Sci. 87 \(2\): 351-5.](#)
6. Meyerhoff, R.R. *et al.* (2012) Comprehensive analysis of commercially available mouse anti-chicken monoclonal antibodies for cross-reactivity with peripheral blood leukocytes from commercial turkeys. [Poult Sci. 91 \(2\): 383-92.](#)
7. 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.](#)
8. Sadeyen, J.R. *et al.* (2015) A cyclophosphamide-sensitive cell compartment is essential for homologous protection conferred by licensed vaccines for the control of avian pathogenic *Escherichia coli*. in chickens. [Vaccine. 33 \(31\): 3624-7.](#)
9. Schermuly, J. *et al.* (2015) *In vitro* model for lytic replication, latency, and transformation of an oncogenic alphaherpesvirus. [Proc Natl Acad Sci U S A. 112 \(23\): 7279-84.](#)
10. Ellis, S. *et al.* (2018) Recombinant Infectious Bronchitis Viruses Expressing Chimeric

Spike Glycoproteins Induce Partial Protective Immunity against Homologous Challenge despite Limited Replication *In Vivo*. [J Virol.92 \(23\): e01473-18.](#)

11. Alber, A. *et al.* (2019) Avian Pathogenic *Escherichia coli* (APEC) Strain-Dependent Immunomodulation of Respiratory Granulocytes and Mononuclear Phagocytes in CSF1R-Reporter Transgenic Chickens. [Front Immunol. 10: 3055.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10077 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5764>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

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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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