

Datasheet: MCA5764

**BATCH NUMBER 161337**

|                      |                            |
|----------------------|----------------------------|
| <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 Stabilisers</b>       | <0.1% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.5mg/ml  |
| <b>Immunogen</b>                      | Bursal cells from day old H.B15 (Bu-1a/b) chickens.   |
| <b>External Database Links</b>        | <b>UniProt:</b><br><a href="#">Q90747</a> <a href="#">Related reagents</a><br><a href="#">Q90746</a> <a href="#">Related reagents</a>   |
| <b>RRID</b>                           | AB_10720221   |
| <b>Specificity</b>                    | <p><b>Mouse anti Chicken Bu-1a/b antibody, clone AV20</b> recognizes Chicken Bu-1a/b, also known as chB6, a type 1 transmembrane protein.</p> <p>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, <a href="#">clone L22</a> that recognises Bu-1a but not Bu-1b is available.</p>  |
| <b>Flow Cytometry</b>                 | Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.   |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. Tregaskes, C.A. <i>et al.</i> (1996) Chicken B-cell marker chB6 (Bu-1) is a highly glycosylated protein of unique structure. <a href="#">Immunogenetics. 44 (3): 212-7.</a></li> <li>2. Baigent, S.J. &amp; 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. <a href="#">Avian Pathol. 28 (3): 287-300.</a></li> <li>3. Barrow, A.D. <i>et al.</i> (2003) Infection of macrophages by a lymphotropic herpesvirus: a new tropism for Marek's disease virus. <a href="#">J Gen Virol. 84 (Pt 10): 2635-45.</a></li> <li>4. Tregaskes, C.A. <i>et al.</i> (2005) Conservation of biological properties of the CD40 ligand, CD154 in a non-mammalian vertebrate. <a href="#">Dev Comp Immunol. 29 (4): 361-74.</a></li> <li>5. Igyártó BZ <i>et al.</i> (2008) Identification of the avian B-cell-specific Bu-1 alloantigen by a novel monoclonal antibody. <a href="#">Poult Sci. 87 (2): 351-5.</a></li> <li>6. Meyerhoff, R.R. <i>et al.</i> (2012) Comprehensive analysis of commercially available mouse anti-chicken monoclonal antibodies for cross-reactivity with peripheral blood leukocytes from commercial turkeys. <a href="#">Poult Sci. 91 (2): 383-92.</a></li> <li>7. Balic, A. <i>et al.</i> (2014) Visualisation of chicken macrophages using transgenic reporter genes: insights into the development of the avian macrophage lineage. <a href="#">Development. 141: 3255-65.</a></li> <li>8. Sadeyen, J.R. <i>et al.</i> (2015) A cyclophosphamide-sensitive cell compartment is essential for homologous protection conferred by licensed vaccines for the control of avian pathogenic <i>Escherichia coli</i> in chickens. <a href="#">Vaccine. 33 (31): 3624-7.</a></li> <li>9. Schermuly, J. <i>et al.</i> (2015) <i>In vitro</i> model for lytic replication, latency, and transformation of an oncogenic alphaherpesvirus. <a href="#">Proc Natl Acad Sci U S A. 112 (23): 7279-84.</a></li> </ol> |

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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