

Datasheet: MCA5764

**BATCH NUMBER 150541**

<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>	0.09% 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> <a href="#">Q90747</a> <a href="#">Related reagents</a> <a href="#">Q90746</a> <a href="#">Related reagents</a>
<b>RRID</b>	AB_10720221
<b>Specificity</b>	<p><b>Mouse anti ChickenBu-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>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>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>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> <li>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>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>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 Pathology. 28 (3): 287-300.</a></li> <li>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>Meyerhoff, R.R. <i>et al.</i> (2012) Comprehensive analysis of commercially available mouse antichickens monoclonal antibodies for cross-reactivity with peripheral blood leukocytes from commercial turkeys. <a href="#">Poult Sci. 91 (2): 383-92.</a></li> <li>Rothwell, C.J. <i>et al.</i> (1996) Identification of chicken Bu-1 alloantigens using the monoclonal antibody AV20. <a href="#">Vet Immunol Immunopathol. 55 (1-3): 225-34.</a></li> <li>Sadeyen, J.R. <i>et al.</i> (2015) A cyclophosphamide-sensitive cell compartment is</li> </ol>

essential for homologous protection conferred by licensed vaccines for the control of avian pathogenic Escherichia coli in chickens. [Vaccine. 33 \(31\): 3624-7.](#)

---

<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10077 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5764">https://www.bio-rad-antibodies.com/SDS/MCA5764</a> 10077
<b>Regulatory</b>	For research purposes only

---

## 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](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M368368:200529'

Printed on 01 Feb 2024