

Datasheet: MCA5764

BATCH NUMBER 167960

Description:	MOUSE ANTI CHICKEN Bu-1a/b
Specificity:	Bu-1a/b
Other names:	BURSAL ANTIGEN 1 A/B
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AV20
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Chicken
Species Cross Reactivity	Does not react with: Quail, Turkey, Guinea Fowl
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant
Buffer Solution	Borate buffered saline

Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Bursal cells from day old H.B15 (Bu-1a/b) chickens.
External Database Links	UniProt: Q90747 Related reagents Q90746 Related reagents
RRID	AB_10720221
Specificity	<p>Mouse anti Chicken Bu-1a/b antibody, clone AV20 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, clone L22 that recognises Bu-1a but not Bu-1b is available.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. 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 (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. <i>et al.</i> (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. <i>et al.</i> (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 <i>et al.</i> (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. <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. Poult Sci. 91 (2): 383-92. 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. Development. 141: 3255-65. 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. Vaccine. 33 (31): 3624-7. 9. Schermuly, J. <i>et al.</i> (2015) <i>In vitro</i> 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.](#)
12. Härtle, S. *et al.* (2024) Delineation of chicken immune markers in the era of omics and multicolor flow cytometry [Frontiers in Veterinary Science. 23 May \[Epub ahead of print\].](#)
13. Saint-Martin, V. *et al.* (2024) The gut microbiota and its metabolite butyrate shape metabolism and antiviral immunity along the gut-lung axis in the chicken. [Commun Biol. 7 \(1\): 1185.](#)

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.

Guarantee 12 months from date of despatch

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

Regulatory 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](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M392052:211020'

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