

Datasheet: MCA5764

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	<0.1% Sodium Azide (NaN ₃)

Stabilisers

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 **Mouse anti ChickenBu-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.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

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. Rothwell, C.J. *et al.* (1996) Identification of chicken Bu-1 alloantigens using the monoclonal antibody AV20. [Vet Immunol Immunopathol. 55 \(1-3\): 225-34.](#)
3. 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 Pathology. 28 \(3\): 287-300.](#)
4. 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.](#)
5. 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.](#)
6. 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.](#)
7. 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.](#)
8. 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.](#)
9. 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.](#)
10. 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.](#)

11. 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.](#)

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: 10077: <https://www.bio-rad-antibodies.com/uploads/MSDS/10077.pdf>

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](#)

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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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