

Datasheet: MCA5958GA

Description:	MOUSE ANTI GUINEA FOWL Bu-1a/b
Specificity:	Bu-1a/b
Other names:	BURSAL ANTIGEN 1 A/B
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	BoA1
Isotype:	IgG1
Quantity:	0.1 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	■			

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	Guinea Fowl
Species Cross Reactivity	Reacts with: Quail, Turkey, Chicken, Grey partridge N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.1% Sodium Azide (NaN ₃)
Stabilisers	0.1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Bursal cell suspension from guinea fowl (<i>Numida melagris</i>).

**External Database
Links**

UniProt:

[Q90747](#) [Related reagents](#)
[Q90746](#) [Related reagents](#)

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0-Ag14 myeloma cell line.

Specificity **Mouse anti Guinea Fowl Bu-1a/b antibody, clone BoA1** specifically recognizes the avian bursal cell antigen, Bu-1a/b. Bu-1a/b, also known as chB6, is a type 1 transmembrane protein.

Bu-1 is a product of two alleles, Bu-1a (chB6.1) and Bu-1b (chB6.2). Mouse anti Guinea Fowl Bu-1a/b antibody, clone BoA1 recognizes both of these alleles. The Bu-1 antigen is expressed by chicken B-cells throughout most of their development and by a subset of monocytes and macrophages ([Igyártó et al. 2008](#)) but is absent from erythrocytes, granulocytes and thrombocytes. As such the Mouse anti Guinea Fowl Bu-1a/b antibody, clone BoA1 provides a useful marker of avian B-cells.

Clone BoA1 is unique in that while other antibodies generated against the Bu-1a/b antigen are restricted in their species reactivity, clone BoA1 recognizes the Bu-1a/b antigen in all phasianid species tested to date. Clone BoA1 therefore provides a reagent that facilitates comparative studies in both domestic and wild phasianids.

In addition to Mouse anti Guinea Fowl Bu-1a/b antibody, clone BoA1, clone AV20 which is specific to chicken Bu-1a/b and clone L22 which recognizes the Bu-1a but not the Bu-1b allele in chicken and quail, are also available from Bio-Rad.

References

1. Igyártó, B.Z. *et al.* (2008) Identification of the avian B-cell-specific Bu-1 alloantigen by a novel monoclonal antibody. [Poult Sci. 87 \(2\): 351-5.](#)
2. Nagy, N. *et al.* (2009) Endothelial cells promote migration and proliferation of enteric neural crest cells via beta1 integrin signaling. [Dev Biol. 330 \(2\): 263-72.](#)
3. Nagy, N. & Oláh, I. (2010) Experimental evidence for the ectodermal origin of the epithelial anlage of the chicken bursa of Fabricius. [Development. 137 \(18\): 3019-23.](#)

Storage 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.

Guarantee 12 months from date of despatch

**Health And Safety
Information** Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

[MOUSE ANTI CHICKEN Bu-1a:FITC \(MCA2170F\)](#)

[MOUSE ANTI CHICKEN Bu-1a/b \(MCA5764\)](#)

[MOUSE ANTI CHICKEN CSF1R \(MCA5956GA\)](#)

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