Datasheet: MCA5774

Description:	MOUSE ANTI CHICKEN BETA 2 MICROGLOBULIN
Specificity:	BETA 2 MICROGLOBULIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F21-21
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

Reacts with: Turkey

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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
External Database Links	**UniProt:** P21611 Related reagents **Entrez Gene:** 414830 B2M Related reagents
RRID	AB_10842663
Specificity	**Mouse anti Chicken β2 microglobulin antibody, clone F21-21** recognises chicken β2 microglobulin, a component of MHC class I molecules and is expressed on nearly all nucleated cells.
Flow Cytometry	Use 10ul of the suggested working dilution to label $1x10^6$ cells in 100ul.

References

1. Dunon, D. *et al.* (1990) T cell precursor migration towards beta 2-microglobulin is involved in thymus colonization of chicken embryos. EMBO J. 9 (10): 3315-22.
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3. Juul-Madsen, H.R. *et al.* (2000) Molecular characterization of major and minor MHC class I and II genes in B21-like haplotypes in chickens. Anim Genet. 31 (4): 252-61.
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5. Juul-Madsen, H.R. *et al.* (2002) Major histocompatibility complex-linked immune response of young chickens vaccinated with an attenuated live infectious bursal disease virus vaccine followed by an infection. Poult Sci. 81 (5): 649-56.
6. Levy, A.M. *et al.* (2003) Major histocompatibility complex class I is downregulated in Marek's disease virus infected chicken embryo fibroblasts and corrected by chicken interferon. Comp Immunol Microbiol Infect Dis. 26 (3): 189-98.
7. Juul-Madsen, H.R. *et al.* (2004) Influence of early or late start of first feeding on growth and immune phenotype of broilers. Br Poult Sci. 45 (2): 210-22.
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9. Wallny, H.J. *et al.* (2006) Peptide motifs of the single dominantly expressed class I molecule explain the striking MHC-determined response to Rous sarcoma virus in chickens. Proc Natl Acad Sci U S A. 103 (5): 1434-9.
10. Juul-Madsen, H.R. *et al.* (2006) Immune response to a killed infectious bursal disease virus vaccine in inbred chicken lines with different major histocompatibility complex haplotypes. Poult Sci. 85 (6): 986-98.
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MHC is explained by coevolution with the polymorphic peptide transporter (TAP) genes. Proc Natl Acad Sci U S A. 108 (20): 8396-401.
12. Butter, C. *et al.* (2013) The peptide motif of the single dominantly expressed class I molecule of the chicken MHC can explain the response to a molecular defined vaccine of infectious bursal disease virus (IBDV). Immunogenetics. 65 (8): 609-18.

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: https://www.bio-rad-antibodies.com/SDS/MCA5774 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

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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
'M392057:211020'

Printed on 12 Aug 2023