

Datasheet: MCA5774 BATCH NUMBER 220414

Description:	MOUSE ANTI CHICKEN BETA 2 MICROGLOBULIN
Specificity:	BETA 2 MICROGLOBULIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F21-21
Isotype:	lgG1
Quantity:	0.25 mg

Product Details

Applications	This product has been re	ported to	work in t	he following applicatior	ns. This information is		
	derived from testing withi	derived from testing within our laboratories, peer-reviewed publications or personal					
	communications from the	communications from the originators. Please refer to references indicated for further					
	information. For general	protocol ı	ecommer	ndations. please visit w	ww.bio-		
	rad-antibodies com/proto	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 us	necessarily exclude its use in such procedures. Suggested working dilutions are given as					
	a quide only. It is recomn	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	Reacts with: Turkey						
Reactivity	eactivity N.B. Antibody reactivity and working conditions may vary between species.				species. Cross		
	reactivity is derived from testing within our laboratories, peer-reviewed publications or						
	personal communications	s from the	e originato	ors. Please refer to refe	rences indicated for		
	further information.		Ū				
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by	ion exch	ange chro	omatography from tissu	e culture supernatant		

Buffer Solution	Borate buffered saline.	
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)	
Approx. Protein Concentrations	IgG concentration 0.5mg/ml	
External Database Links	UniProt: <u>P21611</u> <u>Related reagents</u>	
	<u>414830</u> B2M <u>Related reagents</u>	
RRID	AB_10842663	
Specificity	Mouse anti Chicken β 2 microglobulin antibody, clone F21-21 rec microglobulin, a component of MHC class I molecules and is express nucleated cells.	ognises chicken β2 ed on nearly all
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100	ul.
References	 Pinard, M.H. & Hepkema, B.G. (1993) Biochemical and serological major histocompatibility complex antigens in outbred chickens. <u>Vet Im Immunopathol. 39 (4): 407-19.</u> Levy, A.M. <i>et al.</i> (2003) Major histocompatibility complex class I is Marek's disease virus infected chicken embryo fibroblasts and correct interferon. <u>Comp Immunol Microbiol Infect Dis. 26 (3): 189-98.</u> Dunon, D. <i>et al.</i> (1990) T cell precursor migration towards beta 2-r involved in thymus colonization of chicken embryos. <u>EMBO J. 9 (10)</u>: Juul-Madsen, H.R. <i>et al.</i> (2004) Influence of early or late start of fir and immune phenotype of broilers. <u>Br Poult Sci. 45 (2): 210-22.</u> Skjødt, K. <i>et al.</i> (1986) Isolation and characterization of chicken ar 2-microglobulin. <u>Mol Immunol. 23 (12): 1301-9.</u> Pickel JM <i>et al.</i> (1990) An avian B-lymphocyte protein associated v2-microglobulin. <u>Immunogenetics. 32 (1): 1-7.</u> Buitenhuis, A.J. <i>et al.</i> (2006) Altered circulating levels of serotonin changes in laying hens divergently selected for feather pecking beha (10): 1722-8. Juul-Madsen, H.R. <i>et al.</i> (2006) Immune response to a killed infect virus vaccine followed by an infection. <u>Poult Sci. 81 (5): 649-56.</u> Juul-Madsen, H.R. <i>et al.</i> (2006) Immune response to a killed infect virus vaccine in inbred chicken lines with different major histocompatible infect virus vaccine in inbred chicken lines with different major histocompatible infect virus vaccine in inbred chicken lines with different major histocompatible infect virus vaccine in inbred chicken lines with different major histocompatible infect virus vaccine in inbred chicken lines with different major histocompatible infect virus vaccine in inbred chicken lines with different major histocompatible infect virus vaccine in inbred chicken lines with different major histocompatible infect virus vaccine in inbred chicken lines with different major histocompatible infect virus vaccine in inbr	identification of <u>imunol</u> downregulated in ted by chicken nicroglobulin is <u>3315-22.</u> st feeding on growth id turkey beta with beta and immunological vior. <u>Poult Sci. 85</u> nked immune ious bursal disease bility complex expressed class I ar defined vaccine of <u>18.</u>

	11. 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. <u>Anim Genet. 31 (4): 252-61.</u>
	12. Møller, L.B. et al. (1991) Variations in the cytoplasmic region account for the
	heterogeneity of the chicken MHC class I (B-F) molecules. <u>Immunogenetics. 34 (2):</u>
	<u>110-20.</u>
	13. 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.
	14. Walker, B.A. et al. (2011) The dominantly expressed class I molecule of the chicken
	MHC is explained by coevolution with the polymorphic peptide transporter (TAP) genes.
	Proc Natl Acad Sci U S A. 108 (20): 8396-401.
	15. Hepkema, B.G. et al. (1991) Biochemical identification of B-F and B-G allelic variants
	of the chicken major histocompatibility complex. Anim Genet. 22 (4): 323-32.
	16. Burgess, S.C. & Davison, T.F. (1999) Counting absolute numbers of specific leukocyte
	subpopulations in avian whole blood using a single-step flow cytometric technique:
	comparison of two inbred lines of chickens. <u>J Immunol Methods. 227 (1-2): 169-76.</u>
	17. Lawson S et al. (2001) Turkey and chicken interferon-gamma, which share high
	sequence identity, are biologically cross-reactive. Dev Comp Immunol. 25 (1): 69-82.
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	Material Safety Datasheet documentation #10077 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA5774
	10077
Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)RPEGoat Anti Mouse IgG (H/L) (STAR117...)FITC, HRPRabbit Anti Mouse IgG (STAR9...)FITC

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M368377:200529'

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