

Datasheet: MCA5761

Description:	MOUSE ANTI CHICKEN MHC CLASS I
Specificity:	MHC CLASS I
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F21-2
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.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant
Buffer Solution	Borate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
External Database Links	UniProt:

Specificity	Mouse anti Chicken MHC Class 1 antibody, clone F21-2 recognizes Chicken MHC Class I expressed on the majority of nucleated cells. Chicken MHC Class molecules (B-F and B-L molecules) are highly conserved, with tissue distribution, structure and functions being similar to their mammalian counterparts. Avian MHC Class I molecules, known also as B-F antigens, consist of a glycosylated polymorphic transmembrane α-chain non-covalently bound to the invariant β2-microglobulin subunit. Mouse anti Chicken MHC Class I, clone F21-2 recognizes Turkey MHC Class I (Meyerhoff <i>et al.</i> 2012).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	- Salomonsen, J. <i>et al.</i> (1991) Chicken major histocompatibility complex-encoded B-G antigens are found on many cell types that are important for the immune system. Proc Natl Acad Sci U S A. 88 (4): 1359-63. - Meyerhoff, R.R. <i>et al.</i> (2012) Comprehensive analysis of commercially available mouse antichickon monoclonal antibodies for cross-reactivity with peripheral blood leukocytes from commercial turkeys. Poult Sci. 91: 383-92. - Walker, B.A. <i>et al.</i> (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: 8396-401. - Crone, M. <i>et al.</i> (1985) Mouse monoclonal antibodies to class I and class II antigens of the chicken MHC. Evidence for at least two class I products of the B complex. Immunogenetics. 21: 181-7.
Further Reading	1. Kaufman, J. <i>et al.</i> (1989) B-G cDNA clones have multiple small repeats and hybridize to both chicken MHC regions. Immunogenetics. 30 (6): 440-51.
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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet documentation #10077 available at https://www.bio-rad-antibodies.com/uploads/MSDS/10077.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR117...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Rabbit Anti Mouse IgG (STAR12...)	RPE

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