

## Datasheet: MCA5761

**BATCH NUMBER 154855**

<b>Description:</b>	MOUSE ANTI CHICKEN MHC CLASS I
<b>Specificity:</b>	MHC CLASS I
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	F21-2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Chicken
<b>Species Cross Reactivity</b>	<p>Reacts with: Turkey</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant

<b>Buffer Solution</b>	Borate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q6X3Z0</a> <a href="#">Related reagents</a>
<b>RRID</b>	AB_10730837
<b>Specificity</b>	<p><b>Mouse anti Chicken MHC Class 1 antibody, clone F21-2</b> recognizes Chicken MHC Class I expressed on the majority of nucleated cells.</p> <p>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 <math>\alpha</math>-chain non-covalently bound to the invariant <math>\beta</math>2-microglobulin subunit.</p> <p>Mouse anti Chicken MHC Class I, clone F21-2 recognizes Turkey MHC Class I (<a href="#">Meyerhoff et al. 2012</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>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. <a href="#">Proc Natl Acad Sci U S A. 88 (4): 1359-63.</a></li> <li>Meyerhoff, R.R. <i>et al.</i> (2012) Comprehensive analysis of commercially available mouse antichickens monoclonal antibodies for cross-reactivity with peripheral blood leukocytes from commercial turkeys. <a href="#">Poult Sci. 91: 383-92.</a></li> <li>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. <a href="#">Proc Natl Acad Sci U S A. 108: 8396-401.</a></li> <li>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. <a href="#">Immunogenetics. 21: 181-7.</a></li> </ol>
<b>Further Reading</b>	1. Kaufman, J. <i>et al.</i> (1989) B-G cDNA clones have multiple small repeats and hybridize to both chicken MHC regions. <a href="#">Immunogenetics. 30 (6): 440-51.</a>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10077 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA576110077">https://www.bio-rad-antibodies.com/SDS/MCA576110077</a>
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<b>Regulatory</b>	For research purposes only
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## 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://bio-rad-antibodies.com/datasheets)  
'M368365:200529'

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