

## Datasheet: MCA1348

**BATCH NUMBER 162226**

<b>Description:</b>	MOUSE ANTI CAT MHC CLASS II MONOMORPHIC
<b>Specificity:</b>	MHC CLASS II MONOMORPHIC
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	vpg3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	2 ml

## 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	▪			Neat
Immunohistology - Frozen (1)	▪			
Immunohistology - Paraffin		▪		
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

**(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

<b>Target Species</b>	Cat
<b>Species Cross Reactivity</b>	Does not react with:Human
<b>Product Form</b>	Tissue Culture Supernatant - liquid
<b>Preparation</b>	Tissue Culture Supernatant containing 10mM HEPES and 5-10% foetal calf serum

<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	IL-2 dependent feline T cells.
<b>RRID</b>	AB_321619
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the NS0 mouse myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Cat MHC Class II antibody, clone vpg3</b> recognizes a monomorphic determinant on feline MHC class II molecules. MonomorphicThe major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In cats, this is referred to as the feline leukocyte antigen (FLA) region.</p> <p>Mouse anti Cat MHC Class II antibody, clone vpg3 recognizes monomorphic feline MHC class II molecules which are expressed by antigen presenting cells, B cells, monocytes and both activated and resting T lymphocytes.</p>
<b>Flow Cytometry</b>	Use 50ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. Willett, B.J. <i>et al.</i> (1993) Infection with feline immunodeficiency virus is followed by the rapid expansion of a CD8+ lymphocyte subset. <a href="#">Immunology 78: 1-6.</a></li> <li>2. Willett, B.J., and Callanan, J.J. (1995) The expression of leucocyte differentiation antigens in the feline immune system., p 3-15. In Feline Immunology and Immunodeficiency (eds.) Willett, B.J. and Jarrett, O. Oxford University Press.</li> <li>3. Beatty, J.A. <i>et al.</i> (1996) A longitudinal study of feline immunodeficiency virus-specific cytotoxic T lymphocytes in experimentally infected cats, using antigen-specific induction. <a href="#">J Virol. 70 (9): 6199-206.</a></li> <li>4. Avery, P.R. <i>et al.</i> (2007) Sustained generation of tissue dendritic cells from cats using organ stromal cell cultures. <a href="#">Vet Immunol Immunopathol. 117 (3-4): 222-35.</a></li> <li>5. Mumaw, J.L. <i>et al.</i> (2015) Feline mesenchymal stem cells and supernatant inhibit reactive oxygen species production in cultured feline neutrophils. <a href="#">Res Vet Sci. 103: 60-9.</a></li> <li>6. Hein, A. <i>et al.</i> (2003) Ramified feline microglia selects for distinct variants of feline immunodeficiency virus during early central nervous system infection. <a href="#">J Neurovirol. 9 (4): 465-76.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10055 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1348">https://www.bio-rad-antibodies.com/SDS/MCA1348</a>

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**Regulatory**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](#)Rabbit Anti Mouse IgG (STAR13...) [HRP](#)Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)**North & South** Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)**Worldwide**

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