

## Datasheet: MCA1348

<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</b>	0.09% Sodium Azide

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**Stabilisers**

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**Immunogen** IL-2 dependent feline T cells.

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**RRID** AB\_321619

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**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the NS0 mouse myeloma cell line

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**Specificity** **Mouse anti Cat MHC Class II antibody, clone vpg3** 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.

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.

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**Flow Cytometry** Use 50ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul

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**References**

1. Willett, B.J. *et al.* (1993) Infection with feline immunodeficiency virus is followed by the rapid expansion of a CD8+ lymphocyte subset. [Immunology 78: 1-6.](#)
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.
3. Beatty, J.A. *et al.* (1996) A longitudinal study of feline immunodeficiency virus-specific cytotoxic T lymphocytes in experimentally infected cats, using antigen-specific induction. [J Virol. 70 \(9\): 6199-206.](#)
4. Avery, P.R. *et al.* (2007) Sustained generation of tissue dendritic cells from cats using organ stromal cell cultures. [Vet Immunol Immunopathol. 117 \(3-4\): 222-35.](#)
5. Mumaw, J.L. *et al.* (2015) Feline mesenchymal stem cells and supernatant inhibit reactive oxygen species production in cultured feline neutrophils. [Res Vet Sci. 103: 60-9.](#)
6. Hein, A. *et al.* (2003) Ramified feline microglia selects for distinct variants of feline immunodeficiency virus during early central nervous system infection. [J Neurovirol. 9 \(4\): 465-76.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10055 available at: 10055: <https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf>

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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

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