

## Datasheet: MCA1347GA

### BATCH NUMBER 1803

<b>Description:</b>	MOUSE ANTI CAT CD8 ALPHA/BETA
<b>Specificity:</b>	CD8 ALPHA/BETA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	vpg9
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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	▪			1/25 - 1/200
Immunohistology - Frozen	▪			
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.

<b>Target Species</b>	Cat
<b>Species Cross Reactivity</b>	Does not react with:Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** Feline thymocytes.

## External Database Links

### UniProt:

[P41688](#) [Related reagents](#)

[P79336](#) [Related reagents](#)

### Entrez Gene:

[493799](#) CD8A [Related reagents](#)

[493948](#) CD8B [Related reagents](#)

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**Synonyms** CD8B1

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

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**Specificity** **Mouse anti Cat CD8 alpha/beta antibody, clone vpg9** recognizes the feline homolog of human CD8. Clone vpg 9 specifically recognizes an epitope associated with the alpha/beta complex of the CD8 heterodimer ([Shimojima et al. 1998](#)).

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

## References

1. Willett, B.J., and Callanan, J.J. (1995) The expression of leucocyte differentiation antigens in the feline immune system. P 3-15. In B.J. Willett and O.J. Jarrett (eds). Feline Immunology and Immunodeficiency. Oxford University Press, Oxford.
2. Callanan, J. *et al.* (1993) Morphologic characterization of the lymph node changes in feline immunodeficiency virus infection as an animal model of AIDS. In P. Racz, N. L. Letvin, and J.C. Gluckman (eds), Animal models of HIV and other retroviral infections. S. Karger, Basel, Switzerland. P. 115-136.
3. Shimojima, M. *et al.* (1998) Characterization of anti-feline CD8 monoclonal antibodies. [Vet Immunol Immunopathol. 61 \(1\): 17-23.](#)
4. Veir, J.K. *et al.* (2007) Effect of supplementation with Enterococcus faecium (SF68) on immune functions in cats. [Vet Ther. 8: 229-38.](#)
5. Pistello, M. *et al.* (2010) Env-expressing autologous T lymphocytes induce neutralizing antibody and afford marked protection against feline immunodeficiency virus. [J Virol. 84: 3845-56.](#)
6. Willett, B.J. *et al.* (2007) Probing the interaction between feline immunodeficiency virus and CD134 by using the novel monoclonal antibody 7D6 and the CD134 (Ox40) ligand. [J Virol. 81: 9665-79.](#)
7. Willett, B.J. *et al.* (2013) Selective expansion of viral variants following experimental transmission of a reconstituted feline immunodeficiency virus quasispecies. [PLoS One. 8 \(1\): e54871.](#)
8. Milner, R.J. *et al.* (2004) Suppurative rhinitis associated with Haemophilus species

infection in a cat. [J S Afr Vet Assoc. 75 \(2\): 103-7.](#)

9. Rydzewski, L. *et al.* (2016) Identification of a novel feline large granular lymphoma cell line (S87) as non-MHC-restricted cytotoxic T-cell line and assessment of its genetic instability. [Vet Immunol Immunopathol. 177: 24-34.](#)

10. de Oliveira Medeiros, S. *et al.* (2016) Follow-up on long-term antiretroviral therapy for cats infected with feline immunodeficiency virus. [J Feline Med Surg. 18 \(4\): 264-72.](#)

11. Guzera, M. *et al.* (2016) The use of flow cytometry for immunophenotyping lymphoproliferative disorders in cats: a retrospective study of 19 cases. [Vet Comp Oncol. 14 Suppl 1: 40-51.](#)

12. O'Brien, T. *et al.* (2015) Moderate dietary supplementation with vitamin E enhances lymphocyte functionality in the adult cat. [Res Vet Sci. 99: 63-9.](#)

13. Sparger, E.E. *et al.* (2018) Investigation of immune cell markers in feline oral squamous cell carcinoma. [Vet Immunol Immunopathol. 202: 52-62.](#)

14. Maeta, N. *et al.* (2019) Lymphokine-activated killer cell transplantation after anti-cancer treatment in two aged cats. [Open Vet J. 9 \(2\): 147-50.](#)

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**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1347GA>  
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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 IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),  
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

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

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

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)  
[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M365185:200529'

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