

Datasheet: MCA1347PE

BATCH NUMBER 169415

Description:	MOUSE ANTI CAT CD8 ALPHA/BETA:RPE
Specificity:	CD8 ALPHA/BETA
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	vpg9
Isotype:	IgG1
Quantity:	100 TESTS

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	▪			Neat

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	Cat		
Species Cross Reactivity	Does not react with:Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Antibody purified from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		

5% sucrose

Immunogen Feline thymocytes.

External Database Links

UniProt:

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

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

Entrez Gene:

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

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

Synonyms CD8B1

RRID AB_2229071

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

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](#)).

Flow Cytometry Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl

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.](#)
15. Mustafa-Kamal, F. *et al.* (2019) Characterization of antiviral T cell responses during primary and secondary challenge of laboratory cats with feline infectious peritonitis virus (FIPV). [BMC Vet Res. 15 \(1\): 165.](#)
16. Rütgen, B.C. *et al.* (2022) Composition of lymphocyte subpopulations in normal and mildly reactive peripheral lymph nodes in cats. [J Feline Med Surg. 24 \(2\): 77-90.](#)
17. Cha, S. *et al.* (2023) Non-B, Non-T Acute Lymphoblastic Leukemia in a Cat [Journal of Veterinary Clinics. 40 \(4\): 298-302.](#)
18. Rütgen, B.C. *et al.* (2024) Flowcytometric data of intermediate-large cell gastrointestinal lymphoma presenting a gross mass in 32 cats - "let them glow in the flow". [Front Vet Sci. 11: 1378826.](#)
19. Wolfesberger, B. *et al.* (2024) Immunophenotype investigation in feline intestinal non-B-cell lymphoma. [J Comp Pathol. 212: 20-26.](#)

Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1347PE 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA1209PE\)](#)

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

'M432944:240917'

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

Printed on 23 May 2025

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)