

Datasheet: MCA1347PE

BATCH NUMBER 1605

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 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.

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
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
	1%	Bovine Serum Albumin	

Immunogen	Feline thymocytes.
External Database Links	<p>UniProt:</p> <p>P41688 Related reagents</p> <p>P79336 Related reagents</p> <p>Entrez Gene:</p> <p>493799 CD8A Related reagents</p> <p>493948 CD8B Related reagents</p>
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 <i>et al.</i> 1998).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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). <i>Feline Immunology and Immunodeficiency</i>. Oxford University Press, Oxford. 2. Callanan, J. <i>et al.</i> (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), <i>Animal models of HIV and other retroviral infections</i>. S. Karger, Basel, Switzerland. P. 115-136. 3. Shimojima, M. <i>et al.</i> (1998) Characterization of anti-feline CD8 monoclonal antibodies. Vet Immunol Immunopathol. 61 (1): 17-23. 4. Veir, J.K. <i>et al.</i> (2007) Effect of supplementation with <i>Enterococcus faecium</i> (SF68) on immune functions in cats. Vet Ther. 8: 229-38. 5. Pistello, M. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2004) Suppurative rhinitis associated with <i>Haemophilus</i> species infection in a cat. J S Afr Vet Assoc. 75 (2): 103-7. 9. Rydzewski, L. <i>et al.</i> (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.](#)

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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.](#)

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15. Mustaffa-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.](#)

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 \(MCA928PE\)](#)

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

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