Datasheet: MCA1347GA

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

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/25 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN_3)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
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
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 10^6 lymphocytes 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

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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” Frontiers in Veterinary Science. 28 May [Epub ahead of print].

Storage	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. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1347GA 10040
Regulatory	For research purposes only

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)

North & South America Tel: +1 800 265 7376 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

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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

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