

Datasheet: MCA1346F

BATCH NUMBER 172087

Description:	MOUSE ANTI CAT CD4:FITC
Specificity:	CD4
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	vpg34
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	▪			Neat - 1/10

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		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Antibody purified from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		
Immunogen	Immunoaffinity purified feline CD4.		

RRID	AB_322909
Fusion Partners	Spleen cells from immunized BALB/c were fused with cells of the NS0 mouse myeloma cell line.
Specificity	Mouse anti Cat CD4 antibody, clone vpg34 recognizes the feline homolog of the human CD4 antigen. CD4 is not expressed on feline monocytes.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ lymphocytes in 100µl
References	<ol style="list-style-type: none"> 1. Calmann, J.J. <i>et al.</i> (1993) Morphologic Characterization of the Lymph Node Changes in Feline Immunodeficiency Virus Infection as an Animal Model of AIDS1 In: Racz P, Letvin NL, Gluckman JC (eds): Animal Models of HIV and Other Retroviral Infections. Basel, Karger, 1993, pp 115-136 2. Willett, B.J. <i>et al.</i> (1994) The generation of monoclonal antibodies recognising novel epitopes by immunisation with solid matrix antigen-antibody complexes reveals a polymorphic determinant on feline CD4. J Immunol Methods. 176 (2): 213-20. 3. Hosie, M.J. <i>et al.</i> (2000) Vaccination with inactivated virus but not viral DNA reduces virus load following challenge with a heterologous and virulent isolate of feline immunodeficiency virus. J Virol. 74: 9403-11. 4. Hosie, M.J. <i>et al.</i> (2002) Evolution of replication efficiency following infection with a molecularly cloned feline immunodeficiency virus of low virulence. J Virol. 76: 6062-72. 5. Flynn, J.N. <i>et al.</i> (2002) Longitudinal analysis of feline leukemia virus-specific cytotoxic T lymphocytes: correlation with recovery from infection. J Virol. 76: 2306-15. 6. Campbell, D.J. <i>et al.</i> (2004) Insulin-like growth factor-I (IGF-I) and its association with lymphocyte homeostasis in the ageing cat. Mech Ageing Dev. 125: 497-505. 7. Campbell, D.J. <i>et al.</i> (2004) Age-related differences in parameters of feline immune status. Vet Immunol Immunopathol. 100: 73-80. 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: 103-7. 9. Webb, C. <i>et al.</i> (2006) Use of flow cytometry and monochlorobimane to quantitate intracellular glutathione concentrations in feline leukocytes. Vet Immunol Immunopathol. 112 (3-4): 129-40. 10. Veir, J.K. <i>et al.</i> (2006) Evaluation of a novel immunotherapy for treatment of chronic rhinitis in cats. J Feline Med Surg. 8 (6): 400-11. 11. 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. 12. Avery, P.R. <i>et al.</i> (2007) Sustained generation of tissue dendritic cells from cats using organ stromal cell cultures. Vet Immunol Immunopathol. 117 (3-4): 222-35. 13. 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. 14. Webb, C. <i>et al.</i> (2008) Oxidative stress during acute FIV infection in cats. Vet Immunol Immunopathol. 122 (1-2): 16-24. 15. Carreño, A.D. <i>et al.</i> (2008) Loss of naïve (CD45RA+) CD4+ lymphocytes during pediatric infection with feline immunodeficiency virus. Vet Immunol Immunopathol. 121: 161-8.

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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. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1346F
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA1209F\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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