

Datasheet: MCA1348

BATCH NUMBER 161123

Description:	MOUSE ANTI CAT MHC CLASS II MONOMORPHIC
Specificity:	MHC CLASS II MONOMORPHIC
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	vpg3
Isotype:	IgG1
Quantity:	2 ml

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
Immunohistology - Frozen (1)	▪			
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.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Cat
Species Cross Reactivity	Does not react with:Human
Product Form	Tissue Culture Supernatant - liquid
Preparation	Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum

Preservative Stabilisers	0.09% Sodium Azide
Immunogen	IL-2 dependent feline T cells.
RRID	AB_321619
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NS0 mouse myeloma cell line
Specificity	<p>Mouse anti Cat MHC Class II antibody, clone vpg3 recognizes a monomorphic determinant on feline MHC class II molecules. MonomorphicThe major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In cats, this is referred to as the feline leukocyte antigen (FLA) region.</p> <p>Mouse anti Cat MHC Class II antibody, clone vpg3 recognizes monomorphic feline MHC class II molecules which are expressed by antigen presenting cells, B cells, monocytes and both activated and resting T lymphocytes.</p>
Flow Cytometry	Use 50ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 1. Willett, B.J. <i>et al.</i> (1993) Infection with feline immunodeficiency virus is followed by the rapid expansion of a CD8+ lymphocyte subset. Immunology 78: 1-6. 2. Willett, B.J., and Callanan, J.J. (1995) The expression of leucocyte differentiation antigens in the feline immune system., p 3-15. In Feline Immunology and Immunodeficiency (eds.) Willett, B.J. and Jarrett, O. Oxford University Press. 3. Beatty, J.A. <i>et al.</i> (1996) A longitudinal study of feline immunodeficiency virus-specific cytotoxic T lymphocytes in experimentally infected cats, using antigen-specific induction. J Virol. 70 (9): 6199-206. 4. 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. 5. Mumaw, J.L. <i>et al.</i> (2015) Feline mesenchymal stem cells and supernatant inhibit reactive oxygen species production in cultured feline neutrophils. Res Vet Sci. 103: 60-9. 6. Hein, A. <i>et al.</i> (2003) Ramified feline microglia selects for distinct variants of feline immunodeficiency virus during early central nervous system infection. J Neurovirol. 9 (4): 465-76.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10055 available at: https://www.bio-rad-antibodies.com/SDS/MCA1348</p> <p>10055</p>

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#)

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

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

Recommended Negative Controls

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

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

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