Datasheet: MCA2278 BATCH NUMBER 167260

Description:	MOUSE ANTI FELINE IMMUNODEFICIENCY VIRUS p24 gag
Specificity:	FELINE IMMUNODEFICIENCY VIRUS p24 gag
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	PAK3-2C1
Isotype:	lgG1
Quantity:	0.25 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 <u>www.bio-</u>														
	rad-antibodies.com/protocols.														
		Yes	No	Not Determined	Suggested Dilution										
	Flow Cytometry (1)	•													
	Immunohistology - Frozen	-													
	(2)	-													
	Immunohistology - Paraffin														
	ELISA	-													
	Immunoprecipitation														
	Western Blotting	-													
	Immunofluorescence	-													
	Where this product has n	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. (1) Membrane permeabilization is required for this application. The use of														
								• •	Leucoperm (Product Code <u>BUF09</u>) is recommended for this purpose.						
								(2)The epitope recognis	(2)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	Viral													
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	<0.1% sodium azide (NaN ₃)				
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml				
RRID	AB_2108361				
Specificity	Mouse anti Feline Immunodeficiency Virus p24 gag antibody, clone PAK3-2C1 recognizes an epitope on the C-terminal alpha-helix 9 within the amino-acid sequence AEVKLYLKQSLSIAN of feline immunodeficiency virus (FIV) p24 gag. The lentivirus FIV, responsible for a progressive and debilitating immune deficiency syndrome in domestic cats, similar to that caused by the human Immunodeficiency Virus (HIV), is a complex retrovirus with a tightly-packed genome, containing the structural				
	genes <i>gag, env</i> and <i>pro-pol</i> and the accessory genes <i>vif, rev</i> and <i>ORF-A/2</i> . The specific binding epitope recognized by Mouse anti Feline Immunodeficiency Virus p24 gag antibody, clone PAK3-2C1 appears to be enclosed in a tight peptide coil during gag production and maturation. The addition of 0.3% Triton-X detergent is recommended to reveal this epitope for antibody binding.				
	Mouse anti Feline Immunodeficiency Virus p24 gag antibody, clone PAK3-2C1 detects a dominant band of approximately 24kDa, and also detects p24 gag precursor bands at 36, 39, 49 and 52 kDa under reducing conditions in Western blotting.				
	Mouse anti Feline Immunodeficiency Virus p24 gag antibody, clone PAK3-2C1 does not recognize Feline Leukaemia Virus (FeLV), Feline Herpes Virus (FHV) type 1, Feline Coronavirus or Feline Calicivirus.				
Flow Cytometry	Use 10μ l of the suggested working dilution to label $1x10^6$ cells in 100μ l				
References	 Lerner, D.L. <i>et al.</i> (1995) Increased mutation frequency of feline immunodeficiency virus lacking functional deoxyuridine-triphosphatase. <u>Proc Natl Acad Sci U S A. 92 (16): 7480-4.</u> Chatterji, U. <i>et al.</i> (2000) Feline immunodeficiency virus Vif localizes to the nucleus. <u>J</u> <u>Virol. 74 (6): 2533-40.</u> Rolim, V.M. <i>et al.</i> (2016) Myocarditis caused by Feline Immunodeficiency Virus in Five Cats with Hypertrophic Cardiomyopathy. <u>J Comp Pathol. 154 (1): 3-8.</u> Freer, G. <i>et al.</i> (2007) Effects of feline immunodeficiency virus on feline monocytederived dendritic cells infected by spinoculation. <u>J Gen Virol. 88 (Pt 9): 2574-82.</u> Del Vecchio, C. <i>et al.</i> (2020) Alix-Mediated Rescue of Feline Immunodeficiency Virus Budding Differs from That Observed with Human Immunodeficiency Virus. <u>J Virol. 4 (11): e02019-19.</u> Wronski, J.G. <i>et al.</i> (2023) Ophthalmic and immunopathological characterization of 				

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/MCA2278 10040				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)<u>RPE</u> Rabbit Anti Mouse IgG (STAR9...) <u>FITC</u>

Rabbit Anti Mouse IgG (STAR13...)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M418701:230427'

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