

Datasheet: MCA2552

BATCH NUMBER 160813

Description:	MOUSE ANTI FELINE IMMUNODEFICIENCY VIRUS gp95
Specificity:	FELINE IMMUNODEFICIENCY VIRUS gp95 V3 REGION
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SU1-30
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			
Functional Assays	▪			

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	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	0.05% Sodium Azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
RRID	AB_808577
Specificity	<p>Mouse anti Feline Immunodeficiency Virus gp95 antibody, clone SU1-30 recognizes the relatively conserved E60 peptide (amino acid sequence SSWKQRNRWEWRPDF) located within the V3 region of FIV (Feline Immunodeficiency Virus) envelope glycoprotein SU,gp95.</p> <p>The primary receptor for FIV infection of cats has been identified as the T-cell activation antigen CD134 which, along with CXC chemokine receptor 4 (CXCR4), facilitates the infection of CD4+ primary target cells, resulting in a depletion in the CD4+ population. Studies have shown that the V3 loop of SU,gp95 is a major immunogenic domain, suggested to contain the main determinants for the binding of FIV SU,gp95 to CXCR4 (Sundstrom, M. et al. 2008).</p> <p>Mouse anti Feline Immunodeficiency Virus gp95 antibody, clone SU1-30 has been shown to inhibit the sCD134-activated entry of both clade B and clade C FIV strains (de Parseval, A. et al. 2006).</p> <p>Mouse anti Feline Immunodeficiency Virus gp95 antibody, clone SU1-30 does not recognise Feline Leukaemia Virus, Feline Herpes Virus type 1, Feline Coronavirus or Feline Calicivirus.</p> <p>Removal of sodium azide is recommended prior to use in functional studies.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
Western Blotting	MCA2552 detects a band of approximately 95kDa under reducing conditions
References	<ol style="list-style-type: none"> 1. DeParseval, A. <i>et al.</i> (2006) Sequential CD134-CXCR4 interactions in feline immunodeficiency virus (FIV): soluble CD134 activates FIV Env for CXCR4-dependent entry and reveals a cryptic neutralization epitope. J Virol. 80 (6): 3088-91. 2. Sundstrom, M. <i>et al.</i> (2008) Mapping of the CXCR4 binding site within variable region 3 of the feline immunodeficiency virus surface glycoprotein. J Virol. 82 (18): 9134-42. 3. Klonjowski, B. <i>et al.</i> (2009) Gag-specific immune enhancement of lentiviral infection after vaccination with an adenoviral vector in an animal model of AIDS. Vaccine. 27: 928-39.
Further Reading	1. Willett, B.J. <i>et al.</i> (2006) Differential utilization of CD134 as a functional receptor by diverse strains of feline immunodeficiency virus. J Virol. 80 (7): 3386-94.
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	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2552 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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

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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](https://www.bio-rad-antibodies.com/datasheets)

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