

Datasheet: MCA2552

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	<0.1% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

RRID AB_808577

Specificity **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.

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](#)).

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](#)).

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.

Removal of sodium azide is recommended prior to use in functional studies.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul

Western Blotting MCA2552 detects a band of approximately 95kDa under reducing conditions

References

1. DeParseval, A. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (2006) Differential utilization of CD134 as a functional receptor by diverse strains of feline immunodeficiency virus. [J Virol. 80 \(7\): 3386-94.](#)

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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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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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