

Datasheet: MCA1897

BATCH NUMBER 173340

Description:	MOUSE ANTI FELINE LEUKAEMIA VIRUS gp70
Specificity:	FELINE LEUKAEMIA VIRUS gp70
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	C11D8
Isotype:	IgG2b
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	▪			

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

External Database

Links

UniProt:

[Q85525](#)

[Related reagents](#)

RRID

AB_323078

Specificity

Mouse anti Feline Leukemia Virus gp70 antibody, clone C11D8 recognizes the gp85/gp70 envelope glycoprotein of feline leukemia virus. The antibody specifically recognizes the epitope defined by amino acids 214-218 of the gp70 sequence (aa MGPNL).

Some weak cross-reactivity with the sequence MGPLL found in the FeLV p15e membrane protein may also occur.

This antibody effectively neutralizes all three FeLV subgroups (A,B and C).

Removal of the preservative is recommended prior to use in functional assays.

References

1. Grant, C.K. *et al.* (1983) Feline leukemia virus envelope gp70 of subgroups B and C defined by monoclonal antibodies with cytotoxic and neutralizing functions. [J Immunol. 131 \(6\): 3042-8.](#)
2. Buchmann, A.U. *et al.* (2010) Does a Feline Leukemia Virus Infection Pave the Way for *Bartonella henselae* Infection in Cats? [J Clin Microbiol. 48: 3295-300.](#)
3. Rolim, V.M. *et al.* (2016) Myocarditis caused by Feline Immunodeficiency Virus in Five Cats with Hypertrophic Cardiomyopathy. [J Comp Pathol. 154 \(1\): 3-8.](#)
4. Cristo, T.G. *et al.* (2019) Feline Leukaemia Virus Associated with Leukaemia in Cats in Santa Catarina, Brazil. [J Comp Pathol. 170: 10-21.](#)
5. Biezus, G. *et al.* (2020) Plasma Cell Pododermatitis Associated With Feline Leukemia Virus (FeLV) and Concomitant Feline Immunodeficiency Virus (FIV) Infection in a Cat. [Top Companion Anim Med. 41: 100475.](#)
6. Gómez, Á. *et al.* (2023) Feline osteochondromatosis in a 12-year-old feline leukaemia virus-negative cat. [J Comp Pathol. 205: 24-6.](#)
7. Wronski, J.G. *et al.* (2023) Ophthalmic and immunopathological characterization of systemic infectious diseases in cats. [Vet Pathol. 60 \(3\): 352-359.](#)
8. Pandolfo, G.W. *et al.* (2024) Neoplastic and non-neoplastic diseases associated with feline leukaemia virus (FeLV) in cats in southern Brazil. [Comp Immunol Microbiol Infect Dis. 112: 102228.](#)
9. de Cristo, T.G. *et al.* (2024) Immunocytochemistry of bone marrow aspirates: a tool in the diagnosis of feline leukemia virus infection in cats. [J Comp Pathol. 214: 12-18.](#)
10. Pandolfo, G.W. *et al.* (2024) Unusual mediastinal abscess to *Pseudomonas aeruginosa* in a cat in southern Brazil [Braz J Vet Pathol, 2025, vol. 18, e018004](#)

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: https://www.bio-rad-antibodies.com/SDS/MCA1897
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

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

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
'M418766:230427'

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