

Datasheet: MCA2550

BATCH NUMBER 162092

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|----------------------|--|
| Description: | MOUSE ANTI FELINE LEUKAEMIA VIRUS p15E |
| Specificity: | FELINE LEUKAEMIA VIRUS p15E |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | PF6J-2A1 |
| Isotype: | IgG2a |
| 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 | ▪ | | | 1/2,000 |

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 1.0mg/ml |

Concentrations

External Database

Links

UniProt:

[Q85525](#)

[Related reagents](#)

RRID

AB_619995

Specificity

Mouse anti Feline leukemia virus p15e antibody, clone PF6J-2A1 recognizes an epitope within the amino-terminal domain of both the 20 kDa full-length (including intracellular sequence), and the 15k Da truncated forms, of feline leukaemia virus (FeLV) p15e transmembrane envelope protein.

Persistent infection of cats with the oncoretrovirus FeLV can result in the non-neoplastic condition known as FeLV-associated enteritis (FAE). There is strong expression of the major FeLV proteins p15e and gp70 in intestinal crypt epithelial cells of cats with FAE, compared to FeLV-positive cats without intestinal alterations, thereby suggesting a pathogenic role for these envelope proteins/precursors in FAE ([Kipar et al. 2000](#)).

Western Blotting

MCA2550 detects band/s of approximately 15kDa and 20kDa under reducing conditions.

References

1. Kipar, A. *et al.* (2000) Expression of viral proteins in feline leukemia virus-associated enteritis. [Vet Pathol. 37 \(2\): 129-36.](#)
 2. Kipar, A. *et al.* (2001) Comparative examination of cats with feline leukemia virus-associated enteritis and other relevant forms of feline enteritis. [Vet Pathol. 38 \(4\): 359-71.](#)
 3. Burns, C.C. *et al.* (1995) Mutations within a putative cysteine loop of the transmembrane protein of an attenuated immunodeficiency-inducing feline leukemia virus variant inhibit envelope protein processing. [J Virol. 69 \(4\): 2126-32.](#)
 4. Gwynn, S.R. *et al.* (2000) Feline leukemia virus envelope sequences that affect T-cell tropism and syncytium formation are not part of known receptor-binding domains. [J Virol. 74 \(13\): 5754-61.](#)
 5. Argaw, T. & Wilson, A. (2015) Mutations altering the gammaretrovirus endoproteolytic motif affect glycosylation of the envelope glycoprotein and early events of the virus life cycle. [Virology. 475: 110-9.](#)
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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/MCA2550>
10040

Related Products

Recommended Secondary Antibodies

| | |
|---|---|
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |

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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

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