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

RRID: AB_808577

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.

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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 (NaN₃)

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

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 - The use of EQU003 is recommended for this purpose.

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

Further Reading

Storage
Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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.

Guarantee
18 months from date of despatch

Health And Safety Information

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