DATASHEET

Feline Calicivirus (FCV) VP1 Protein Mouse Monoclonal Antibody (2D5)

CAT. NO. AXA0045

KEY FEATURES

Target	Feline Calicivirus (FCV) VP1 Protein	Source / Host	Mouse
Reactivity	FCV VP1 Protein	Clonality	Monoclonal
Applications	IF/ICC,Neutralization	Storage	-20.0°C

BACKGROUND

Feline Calicivirus (FCV) VP1 Protein is the major capsid protein of FCV, a non-enveloped single-stranded RNA virus belonging to the Caliciviridae family that causes highly contagious respiratory and oral diseases in cats. As the most abundant structural protein of the virus, accounting for nearly 90% of the viral capsid composition, VP1 is encoded by the viral open reading frame 2 (ORF2) and has a molecular weight of approximately 70 kDa, with a structure consisting of conserved regions and variable domains that contribute to its multiple biological functions. The VP1 protein self-assembles into an icosahedral capsid that encapsulates the viral genome, providing structural stability and protecting the genetic material from environmental degradation while mediating the initial interaction with host cells—specifically, its N-terminal and C-terminal regions bind to surface receptors on feline epithelial cells, facilitating viral entry through receptor-mediated endocytosis.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

Application	Dilution Ratio
IF/ICC	1:500-1:1000
Neutralization	1:10-1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Mouse Monoclonal antibody to Feline Calicivirus (FCV) VP1 Protein
Antibody Type	Primary antibody, Monoclonal
Specificity	Reactivity demonstrated with FCV-infected cells by immunofluorescence.
Isotype	IgG1
Immunogen	FCV Whole Virus
Form/Buffer	Liquid in PBS, 20% Glycerol; preservative: 0.05% Sodium Azide
Alternative Names	FCV VP1, Feline calicivirus capsid protein, FCV major capsid protein VP1

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

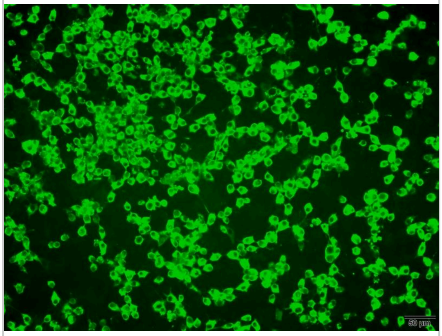
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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Immunofluorescence analysis using Feline Calicivirus (FCV) VP1 Protein Mouse Monoclonal Antibody (2D5) demonstrates recognition of FCV-infected cells.

STORAGE

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com