

# Innovative Reagents for Swine Disease Detection

The global swine industry faces constant challenges from infectious diseases that threaten herd health and productivity. African Swine Fever Virus (ASFV) can cause devastating losses through high mortality and herd culling. Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) undermines productivity with reproductive failure and respiratory illness. Meanwhile, Porcine Epidemic Diarrhea Virus (PEDV) inflicts severe diarrhea and high mortality in piglets.

Effective disease control begins with reliable detection. To meet this need, Creative Diagnostics offers a specialized range of recombinant viral antigens and VHH-based reagents (VHHs and VHH-HRP fusion proteins), for competitive ELISA development and related assay platforms. VHH-HRP probes can be directly applied in competitive ELISA without the need for secondary antibodies. Many of our VHH reagents are also well-suited for immunofluorescence assays, and some have demonstrated neutralizing activity, providing additional value for research and assay development.

## Key Features

- ✓ **Recombinant viral antigens with high purity.**

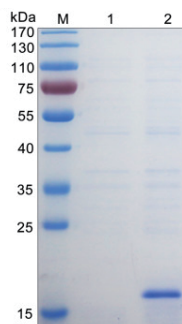


Fig. 1 Recombinant PRRSV-2 Nucleocapsid Protein.

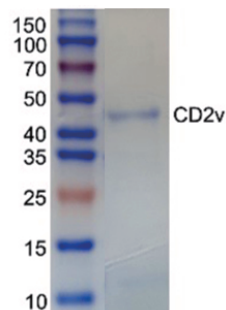


Fig. 2 Recombinant ASFV CD2v Protein.

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- ✓ VHH-based reagents (VHHs & VHH-HRP fusions) offering excellent stability.
- ✓ Optimized for competitive ELISA development with fast and sensitive detection.

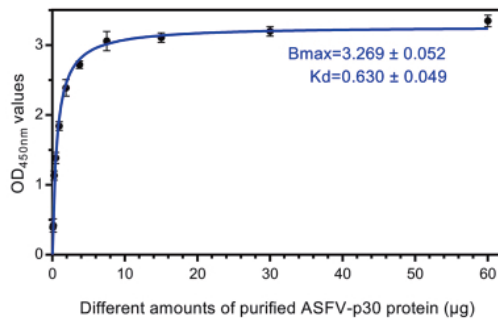


Fig. 3 Binding affinity analysis of anti-ASFV-p30 VHH-HRP to different amounts of ASFV-p30 proteins by ELISA.

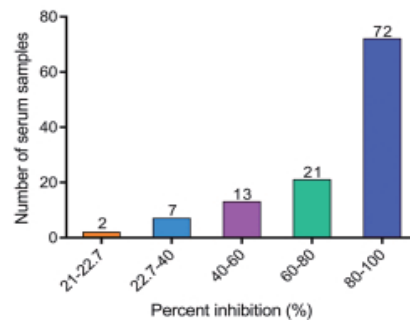


Fig. 4 PI value distribution of clinical ASFV-positive pig sera in the VHH-based competitive ELISA.

- ✓ Suitable for IFA or WB, expanding application flexibility.

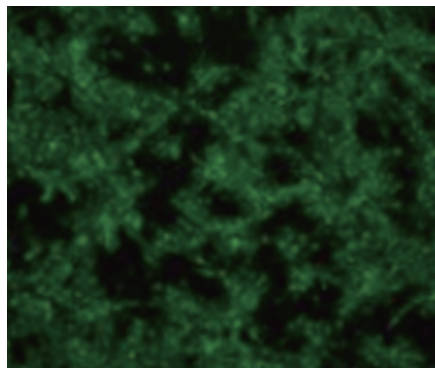


Fig. 5 IFA analysis of Vero cells infected with PEDV (HNXP) using anti-PEDV S VHH-HRP.

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## Product List

### ✓ Antibodies

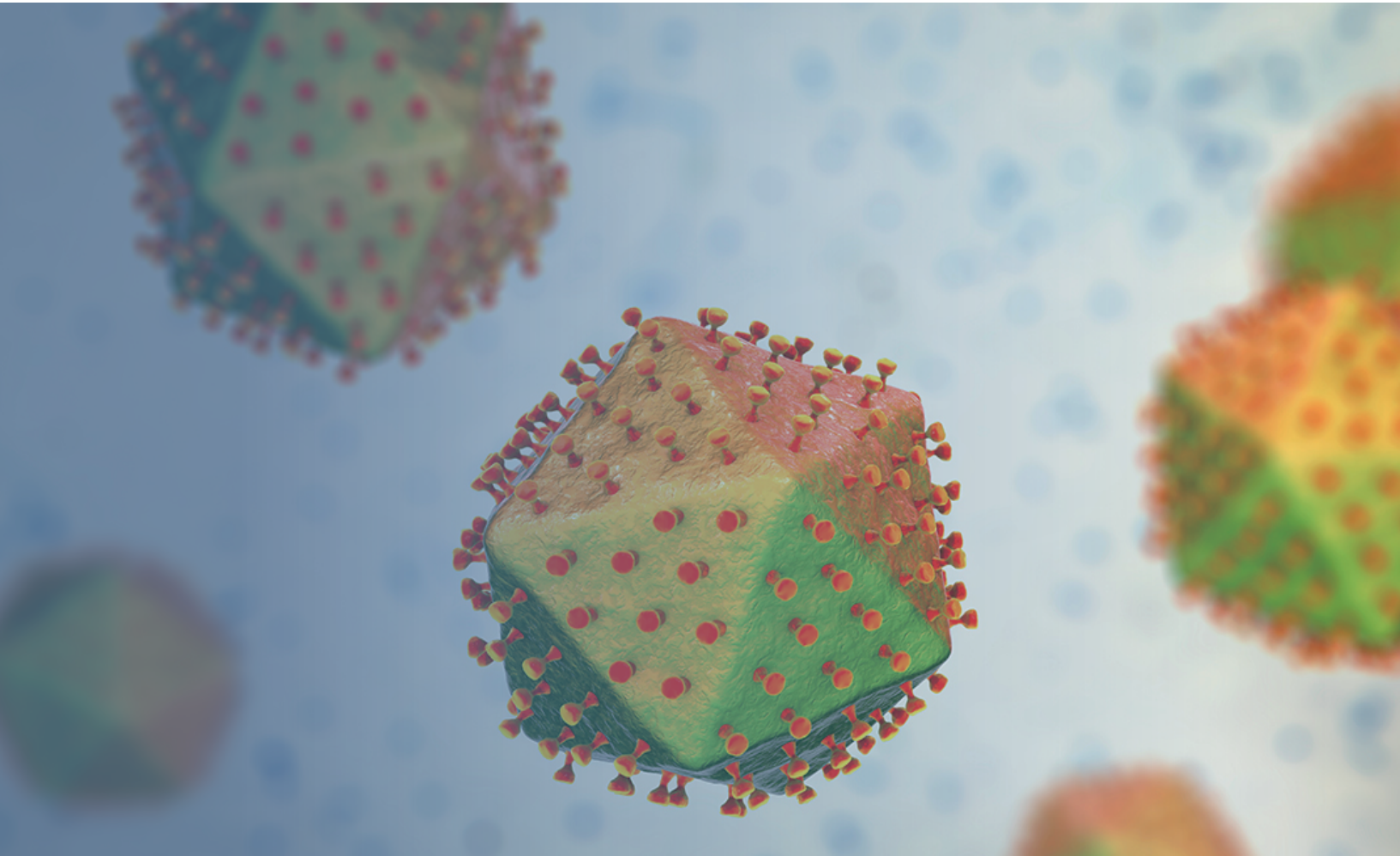
Cat. No.	Product Name	Application
DMABC-JX233	RapV™ Camel Anti-ASFV CD2v VHH Antibody, clone XNV01	ELISA
DMABC-JX234	RapV™ Camel Anti-ASFV p30 VHH Antibody, clone XNV02	ELISA
DMABC-JX240	RapV™ Camel Anti-ASFV p54 VHH Antibody, clone XNV07	ELISA, WB
DMABC-JX246	RapV™ Camel Anti-ASFV p22 VHH Antibody, clone XNV12	ELISA, WB
DMABC-JX247	RapV™ Camel Anti-ASFV pp62 VHH Antibody, clone XNV13	ELISA, WB
DMABC-JX248	RapV™ Camel Anti-ASFV H240R VHH Antibody, clone XNV14	ELISA, WB
DMABC-JX245	RapV™ Camel Anti-ASFV M448R VHH Antibody, clone XNV11	ELISA, WB
DMABC-JX239	RapV™ Camel Anti-PRRSV N protein VHH Antibody, clone XNV06 [HRP]	ELISA, WB
DMABC-JX235	RapV™ Camel Anti-PRRSV-1 N protein VHH Antibody, clone XNV03 [HRP]	ELISA, WB
DMABC-JX237	RapV™ Camel Anti-PRRSV-2 N protein VHH Antibody, clone XNV04 [HRP]	ELISA, WB, IF
DMABC-JX243	Mouse Anti-PRRSV N protein Monoclonal Antibody, clone 6D10	WB, IF
DMABC-JX236	Mouse Anti-PRRSV-2 GP4 protein Monoclonal Antibody, clone XN01	ELISA, IF, Neut
DMABC-JX250	RapV™ Camel Anti-PEDV S protein VHH Antibody, clone XNV16 [HRP]	ELISA, IF
DMABC-JX251	RapV™ Camel Anti-PEDV N protein VHH Antibody, clone XNV17 [HRP]	ELISA, IF, WB

### ✓ Antigens

Cat. No.	Product Name	Application
DAGC-55248	Recombinant PEDV Nucleocapsid Protein [His]	ELISA, WB
DAGC-55249	Recombinant PRRSV-2 Nucleocapsid Protein [His]	ELISA, WB
DAGC-55250	Recombinant ASFV p54 Protein [His]	ELISA, WB
DAGC-55251	Recombinant PRRSV-1 Nucleocapsid Protein [His]	ELISA, WB
DAGC-55252	Recombinant PRRSV-2 Nucleocapsid Protein [GST]	WB
DAGC-55258	Recombinant ASFV p22 Protein [His]	ELISA, WB
DAGC-55259	Recombinant ASFV pp62 Protein [His]	ELISA, WB
DAGC-55260	Recombinant ASFV H240R Protein [His]	ELISA, WB
DAGC-55261	Recombinant ASFV M448R Protein [His]	ELISA, WB
DAGC-55262	Recombinant ASFV CD2v Protein [His]	ELISA, WB

# Creative Diagnostics

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**Contact Us:**

Tel: 1-631-624-4882 (USA) / 44-161-818-6441 (Europe)

Fax: 1-631-938-8221

Email: [info@creative-diagnostics.com](mailto:info@creative-diagnostics.com)

[www.creative-diagnostics.com](http://www.creative-diagnostics.com)

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