

Innovative Solutions for Avian Disease Detection

Poultry health faces constant challenges from viral pathogens. In modern poultry health management, serological testing plays a central role in monitoring immune status, evaluating vaccination programs, and detecting field exposure to pathogens. This is especially critical for pathogens that can cause severe economic losses, such as Highly Pathogenic Avian Influenza (H5N1), Newcastle Disease Virus (NDV) and Fowl Adenoviruses (FAdV).

Traditional antibody-based assays often face high production and labeling costs as well as complex assay workflows. Hemagglutination inhibition (HI) tests and indirect ELISA typically require 2-3 hours to complete, which can be a significant limitation in routine diagnostics.

Creative Diagnostics, with its VHH-HRP fusion expression platform, provides a new generation of high-quality VHH probes. These reagents can be directly applied in competitive ELISA without the need for enzyme-labeled secondary antibodies. As a result, the workflow is significantly streamlined and the detection time is reduced to approximately 1 hour, while maintaining excellent assay performance.

Product Highlights

- ✔ **High-purity recombinant antigens ensure reliable performance in serological assays.**

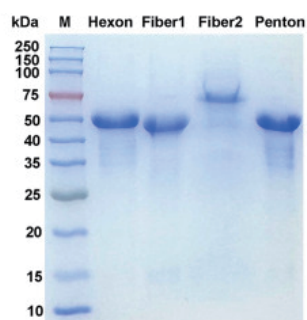


Fig. 1 SDS-PAGE analysis of purified FAdV hexon-HVR, fiber-1, fiber-2 and penton proteins.

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- ✔ **VHH-based reagents combine small size with high specificity and stability, delivering fast and sensitive detection.**

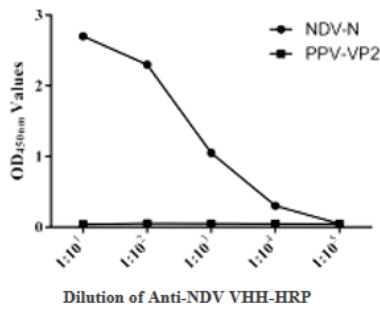


Fig. 2 Analysis of the binding activity of Anti-NDV VHH to the NDV-N protein.

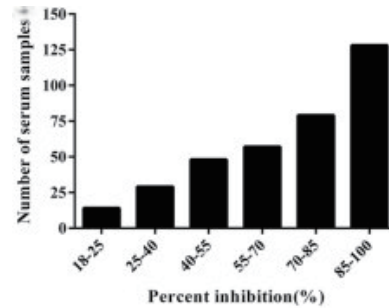


Fig. 3 PI value distribution of clinical NDV A b-positive chicken sera in the Anti-NDV VHH-HRP-based competitive ELISA.

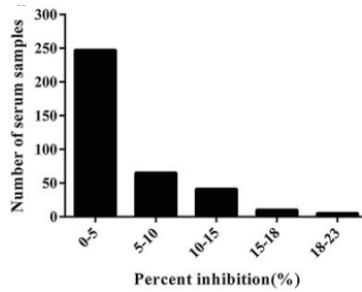


Fig. 4 PI value distribution of clinical NDV Ab-negative chicken sera in the Anti-NDV VHH-HRP-based competitive ELISA.

- ✔ **Broadly applicable in IFA and Western blot, and compatible with diverse detection platforms for flexible use.**

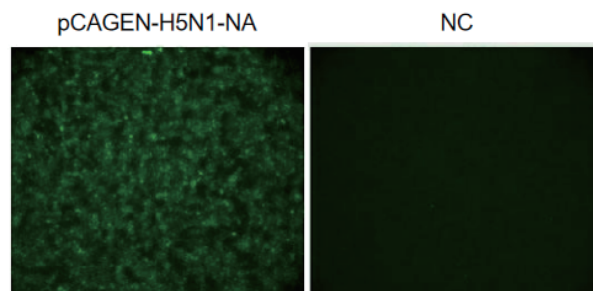


Fig 5. IFA analysis of HEK293T cells transfected with the pCAGEN-H5N1-NA plasmid.

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Product List

✓ Antibodies

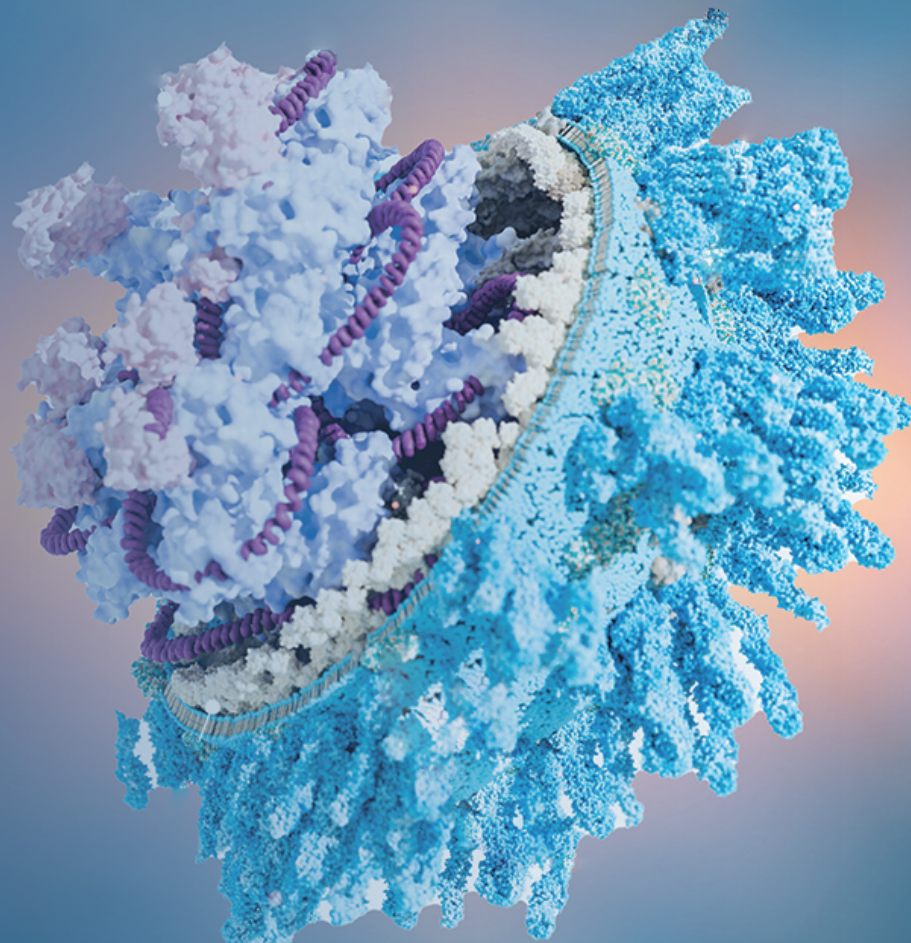
| Cat. No. | Product Name | Application |
|-------------|--|---------------|
| DMABC-JX255 | RapV™ Camel Anti-FAdV-4 Fiber1 VHH Antibody, clone XNV21 [HRP] | ELISA, WB |
| DMABC-JX256 | RapV™ Camel Anti-FAdV-4 Fiber2 VHH Antibody, clone XNV22 [HRP] | ELISA, WB |
| DMABC-JX252 | RapV™ Camel Anti-NDV HN VHH Antibody, clone XNV18 [HRP] | ELISA, WB |
| DMABC-JX253 | RapV™ Camel Anti-NDV (strain LaSota) VHH Antibody, clone XNV19 [HRP] | ELISA, WB |
| DMABC-JX254 | RapV™ Camel Anti-NDV Genotype VII VHH Antibody, clone XNV20 [HRP] | ELISA, WB |
| DMABC-JX241 | RapV™ Camel Anti-IAV H9N2 HA VHH Antibody, clone XNV08 [HRP] | ELISA, WB |
| DMABC-JX242 | RapV™ Camel Anti-IAV H5N1 NA VHH Antibody, clone XNV09 [HRP] | ELISA, WB, IF |
| DMABC-JX244 | RapV™ Camel Anti-IAV H9N2 HA VHH Antibody, clone XNV10 | ELISA, WB |

✓ Antigens

| Cat. No. | Product Name | Application |
|------------|--|-------------|
| DAGC-55263 | Recombinant FAdV-4 Fiber1 Protein [His] | ELISA |
| DAGC-55264 | Recombinant FAdV-4 Fiber2 Protein [His] | ELISA |
| DAGC-55265 | Recombinant FAdV-4 Penton Protein [His] | ELISA |
| DAGC-55266 | Recombinant FAdV-4 Hexon Protein [His] | ELISA |
| DAGC-55254 | Recombinant NDV Fusion Protein [Myc] | ELISA |
| DAGC-55255 | Recombinant NDV HN Protein [Myc] | ELISA |
| DAGC-55256 | Recombinant NDV Nucleocapsid Protein [Myc] | ELISA |
| DAGC-55257 | Recombinant NDV Phosphoprotein [Myc] | ELISA |

Creative Diagnostics

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