

Rapid Test Kit

CPV Ab 2.0, CDV Ab 2.0

Anigen Rapid CPV Ab 2.0 and CDV Ab Test Kit 2.0 are solid phase chromatographic immunoassays for the rapid, semi-quantitative detection of IgG antibodies to parvovirus and distemper virus in canine serum, plasma or whole blood.



Background

Vaccination at less than 6 weeks of age is often not effective due to interference of vaccinal immunity because maternally derived antibodies are at a high enough concentration to interfere with vaccination and a small percentage of pups (<5%) fails to develop enough immunity to certain CDV vaccines and a higher percentage of pups (<17%) fails to develop enough immunity to certain CPV vaccines. Routine measurement of CPV and CDV-specific antibodies is based on hemagglutination-inhibition (HI) test for CPV Ab and serum neutralization assays (SN) for CDV Ab, which are costly as well as time-consuming (at least 4 days) and require specialized laboratories. Anigen succeeded to develop more convenient and accurate rapid test kit for the detection of CPV (CDV) – specific antibody (IgG).

During treatment for CPV or CDV infection, the antibody titer is increased and virus titer is decreased. It means that IgG titer is the probe of the prognosis of the virus infected dog.

Specifications of CPV Ab Test Kit 2.0

- Principle : Immunochromatographic assay using In Direct Sandwich Method (Anti-canine IgG capture) – (CPV IgG) – (CPV) – (CPV Monoclonal Ab detector)
- Purpose : Canine parvovirus antibody (IgG) titration in Canine blood
- Specimen : Canine serum, plasma, or whole blood
- Testing time : 10 minutes
- Sensitivity : 98% vs. Hemagglutination-Inhibition (HI)
- Specificity : 100% vs. Hemagglutination-Inhibition (HI)
- Shelf life : 24 months
- Storage temperature : 2~30 °C
- Packing size : 10 Tests/Kit
- CAT No. : RB21-51 (CPV Ab 2.0)

Special features

- For serological diagnosis of CPV and CDV infection
- For prediction of the prognosis of CPV and CDV patient
- For evaluation of immune status of puppies after vaccination
- For determination of the proper time of vaccination by measuring a maternal antibody titer
- For determination of the proper time of revaccination
- World's first CPV Ab and CDV Ab titration rapid immunochromatographic test kit
- One step testing procedure : Easy to use, Saving time and labor
- No additional equipment is required

Specifications of CDV Ab Test Kit 2.0

- Principle : Immunochromatographic assay using In Direct Sandwich Method (Anti-canine IgG capture) – (CDV IgG) – (CDV) – (CDV Monoclonal Ab detector)
- Purpose : Canine parvovirus antibody (IgG) titration in Canine blood
- Specimen : Canine serum, plasma, or whole blood
- Testing time : 10 minutes
- Sensitivity : 85% vs. Virus Neutralization (VN)
- Specificity : 100% vs. Virus Neutralization (VN)
- Shelf life : 24 months
- Storage temperature : 2~30 °C
- Packing size : 10 Tests/Kit
- CAT No. : RB21-52 (CDV Ab 2.0)

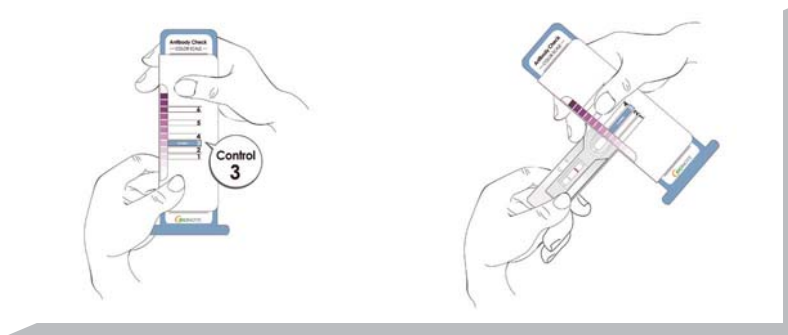
Procedure of the test

- 1) Allow all kit components and specimen to reach room temperature prior to testing
- 2) Collect 5 μ l of sample using capillary tube (point line), and then add the specimen into the diluent tube
 - ♣ A dark color score line on the capillary tube is the indicator line for 5 μ l
- 3) Remove the test kit from the foil pouch prior to use
- 4) Using the disposable dropper provided, take the samples from the mixed assay diluent in the tube
- 5) Add four (4) drops into the sample hole using the disposable dropper slowly drop by drop
- 6) Interpret the test results at 10 minutes. Do not interpret after 20 minutes



Color scale system




- 1) Compare the color development on the control line with color scale and fix it to the scale 3
- 2) Interpret the color intensity of the test line



Comparison Table of Antibody detection methods

HI test for CPV & SN test for CDV	Anigen Rapid CPV Ab, CDV Ab Test Kit	Anigen Rapid CPV Ab, CDV Ab Test Kit 2.0
Sensitive	High correlation rate with HI & SN test	High correlation rate with HI & SN test
Gold standard technique	Commercially available	Commercially available
Can only be performed in specialized laboratory	Easy to perform	Easier to perform
Result variation by performer	Simple test procedure	More simple test procedure
Time consuming	Require 20 minutes	10 minutes only
Impracticable in local hospital	Readable test results (3 lines)	More readable test results (2 lines) Color scale system

Result Interpretation Table of Anigen Rapid CPV Ab and CDV Ab

	Titer	Line color Intensity	Color Scale level and immune status
1	CPV HI Below 80 CDV VN below 32		The color development of T line is weaker than that of C line (Color scale 1~2) **Antibody titer is low against CDV This is indicative of poor immune status (additional vaccination required)
2	CPV HI 80 CDV VN 32		The T line has equal color development with C lines (Color scale 3) **Antibody titer is medium against CDV This is indicative of a good immune status
3	CPV HI Over 80 CDV VN Over 32		The color development of T line is higher or same with C line (Color scale 4~6) **Antibody titer is high against CDV This is indicative of an excellent immune status