

Rapid Test Kit CPV Ag

Anigen Rapid CPV Ag Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of Canine Parvovirus antigen in canine feces.



Background

Canine Parvovirus is a virus that attacks the intestinal tract of dogs, causing severe vomiting and diarrhea. The diarrhea often has a very strong smell, and dogs show clinical signs usually within 7 - 10 days of the initial infection. CPV is extremely hardy, surviving extremes of heat and subzero temperatures for long periods of time, and is a deadly threat to an unvaccinated dog or puppy. Two slightly different strains of CPV that cause a similar disease state, CPV-2a and CPV-2b, have been identified and commercial vaccines give protection against both of these strains. Another subtype of Parvovirus (CPV-1) has been found in pups with diarrhea as well as adult dogs, this strain is not thought to be an important cause of disease.

Specifications

- Principle : Immunochromatographic assay using Direct Sandwich Method
 - Monoclonal anti - CPV (Capture) - CPV - Monoclonal anti-CPV (Detector)
- Purpose : Detection of canine parvovirus antigen
- Specimen : Canine feces
- Reading time : 5 -10 minutes
- Sensitivity : 100% (CPV 2, CPV 2a, CPV 2b) vs. Hemagglutination test (HA)
- Specificity : 98.8% vs. Hemagglutination test
- No cross reaction against CCoV, CDV, ICH, PI2, causative agents of other diarrhea
- Detection limit : 1.0×10^3 TCID₅₀/ml or 0.5 HAU
- Shelf life : 24 months
- Storage temperature : 2~30°C
- Packing size : 10 Tests/Kit
- CAT. No. : RG11-01

Comparison Study

The Anigen Rapid Parvovirus Ag was evaluated with positive and negative clinical samples, confirmed by clinical signs and leading commercial Parvovirus antigen Rapid test kits

1. Comparison test kit: 2 commercially available CPV Ag Immunochromatographic assays
2. No. of Positive specimens by PCR: 51 feces
3. No. of Negative specimens by PCR: 104 feces

	51 positive feces		104 negative feces	
	Positive	Negative	Positive	Negative
Anigen CPV Ag Test	51	0	0	104
Commercial product A	51	0	0	104
Commercial product B	51	0	1	103

The results of this comparison of the Anigen Rapid Parvovirus Ag versus confirmed feces specimens, show a sensitivity of $51/51 \times 100\% = 100\%$, a specificity of $104/104 \times 100\% = 100\%$ and a total agreement of 100% (155/155).

Special Features

- Detection of pathogenic CPV subtypes (CPV2, CPV2a & CPV2b)
- Detection of CPV within 3 days of the infection in feces
- No detection of CPV originating from vaccinations
- Rapid test result: 10 minutes
- One-step testing procedure: Easy to use, saving time and labor
- No additional equipment is required
- Good indicator for the prognosis of CPV infected dog during treatment
(A weak Test line intensity indicates a reduction in the viral load)

Test Procedures

