

Instructions for Use

Version: 1.0.1
Revision date: 29-Dec-22

Porcine Circovirus 2 Antibody (Anti-PCV2) Rapid Test Kit

Catalog No.: abx092027

Size: 40 tests

Storage: Store all reagents at 2-30 °C. Keep dry.

Application: For qualitative detection in Pig serum and whole blood.

Introduction and assay principle

Abbexa's Porcine Circovirus 2 Antibody (Anti-PCV2) Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Porcine Circovirus 2 Antibody present in the samples combines with the colloidal gold particle-labelled Porcine Circovirus 2 (PCV2) antigen. When the concentration of Porcine Circovirus 2 Antibody in the sample is more than the detection limit, there is a color change in the detection line and the result is positive. When the concentration of Porcine Circovirus 2 Antibody in the sample solution is less than the detection limit, there is no color change in the detection line and the result is negative.

Kit Components

- Test cassettes with pipettes: 40
- Antibody titer color card: 1

Material Required But Not Provided

- Timer

Sample preparation

Serum samples should be collected using conventional methods and stored between 2-8 °C for short-term storage (up to 1 week) or -20 °C for long-term storage. Whole blood should be anticoagulated and tested immediately after collection. Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples.

Assay procedure

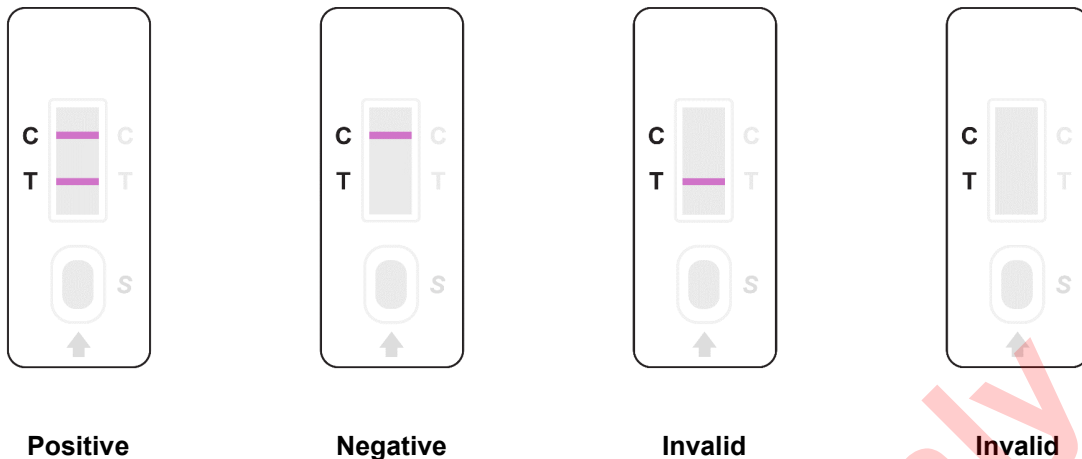
1. Take a test cassette and lay it flat on a clean table. Using the provided pipette, add 6 drops (approximately 120 µl) of sample slowly and vertically to the sample well on the test cassette. Avoid foaming.
2. Allow to stand at room temperature for 10-20 min, then analyze the result.

Results analysis

- **Positive result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Negative result:** A colored line is observed in the control (C) section but not the test (T) section.
- **Invalid result:** No colored line is observed in the control (C) section.

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If the animal has not been immunized with a PCV2 vaccine:

- A negative result indicates that there are no PCV2 antibodies present in the sample. If the animal is exhibiting acute symptoms, PCV2 infection cannot be excluded.
- A positive result indicates that the animal may be infected with PCV2. It is recommended to use another detection method to confirm and analyze the result.

If the animal has previously been immunized with a PCV2 vaccine:

- If the color of the test line \geq 1:40 titer of the color card, the result indicates that the animal has sufficient levels of protective PCV2 antibodies.
- If the color of the test line $<$ 1:40 of the color card, the result indicates that the animal may have insufficient protective PCV2 antibodies.

Notes

1. The test cassettes should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible.
3. Samples should be clear with no visible particles, turbidity, or bacterial pollution.
4. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
5. Do not use water, PBS, or similar solutions as the negative control.
6. Avoid touching the cassette membrane through the sample well or test result window.
7. This kit is for qualitative detection of Porcine Circovirus 2 antibodies in Pig serum and whole blood samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit.
8. This kit is for research use only and the results are for reference only. A rough estimate of the antibody concentration can be determined by the intensity of the color of the detection line, using the provided antibody titer color card. It is recommended to use this kit in conjunction with another detection method.
9. All waste should be disposed appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.