

Instructions for Use

Version: 1.0.2
Revision date: 28-Feb-24

Foot and Mouth Disease Virus Type O Antibody (Anti-FMDV-O) Rapid Test Kit

Catalog No.: abx092073

Size: 40 tests

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

Application: For qualitative detection of Anti-FMDV-O in Pig, Cow, Goat, Sheep serum and whole blood.

Introduction and assay principle

Abbexa's Foot and Mouth Disease Virus Type O Antibody (Anti-FMDV-O) Rapid Test Kit is based on the gold immunochromatography assay (GICA) principle. When the concentration of Anti-FMDV-O 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 Anti-FMDV-O 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

Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples.

- **Serum:** Collect samples using conventional methods and store between 2-8 °C for short-term storage (up to 1 week) or -20 °C for long-term storage.
- **Whole blood:** Collect samples in an anticoagulant tube and test immediately or store at 2-8 °C for up to 24 hours.

Assay procedure

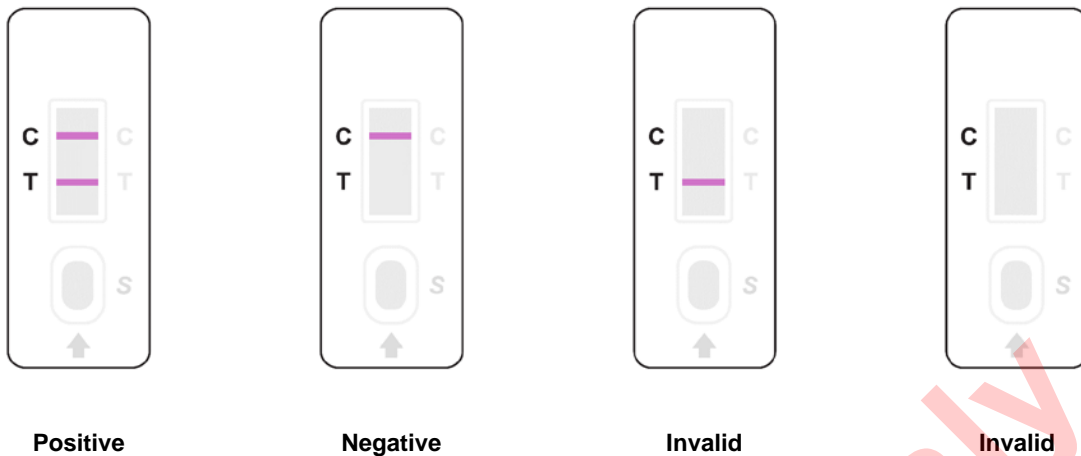
1. Take a test cassette and lay it flat on a clean table. Using the provided pipette, slowly and vertically add 6 drops (approximately 120 µl) of serum sample or 7 drops of whole blood sample to the sample well on the test cassette. Avoid foaming.
2. Leave at room temperature for 10-20 min, then analyze 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 FMDV-O vaccine:

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

If the animal has previously been immunized with a FMDV-O vaccine:

- If the color of the test line \geq 1:32 titer of the color card, the result indicates that the animal has sufficient levels of protective FMDV-O antibodies.
- If the color of the test line $<$ 1:32 of the color card, the result indicates that the animal may have insufficient protective FMDV-O 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 Anti-FMDV-O in Pig, Cow, Goat, Sheep 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 of appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.

Technical Support

For troubleshooting and technical assistance, please contact us at support@abbexa.com.