

Instructions for Use

Version: 1.0.1
Revision date: 9-Aug-24

Human Coxsackievirus A16 (CV-A16) IgM Rapid Test Kit

Catalog No.: abx092087

Size: 20 Tests / 40 Tests

Storage: Store all reagents at 4-30°C. Keep dry.

Application: For qualitative detection of Human Coxsackievirus A16 IgM in Human Serum and whole blood.

Introduction and assay principle

Abbexa's Human Coxsackievirus A16 (CV-A16) IgM Rapid Test Kit is based on the gold immunochromatography assay (GICA) principle. Any Human Coxsackievirus A16 (CV-A16) IgM present in the samples combines with the colloidal gold particle-labelled CV-A16 antigen in the sample well, and the complex diffuses to the test area. Anti-Human IgM antibodies in the test line capture the complex. When the concentration of Human CV-A16 IgM 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 Human CV-A16 IgM 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
- Sample Diluent

Material Required But Not Provided

- High-precision pipette and sterile pipette tips
- 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 or stored at 2-8 °C for up to 24 hours. Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples.

Assay procedure

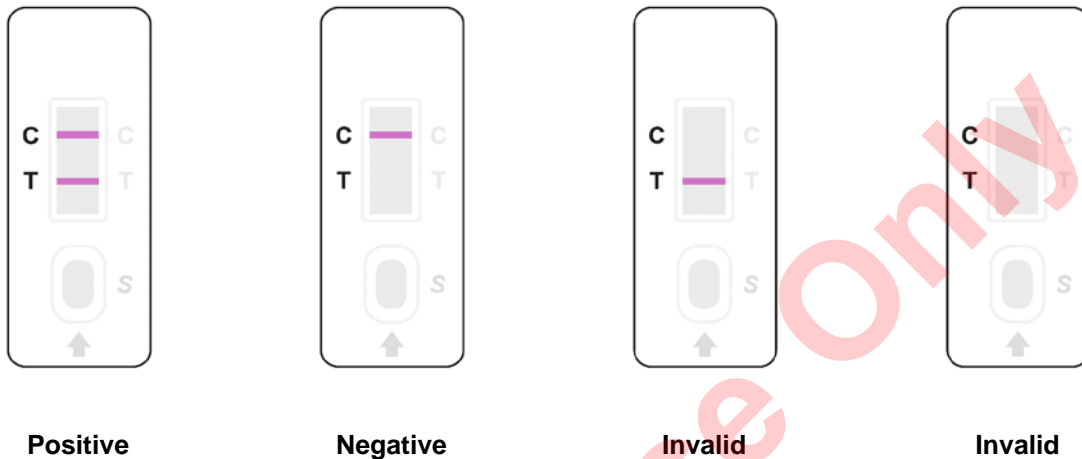
1. Take a test cassette and lay it flat on a clean table.
2. Using a pipette, slowly and vertically add 10 µl of serum (20 µl of whole blood) to the sample well on the test cassette. Avoid foaming. Then add 2 drops (100 µl) of Sample Diluent.
3. Leave at room temperature for 15-20 minutes, then analyze the result immediately.

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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.



Notes

1. The test cassettes and reagent should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible (within 30 minutes).
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 Human Coxsackievirus A16 IgM in Human serum or whole blood samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
8. This kit is for research use only and the results are for reference only. 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.