

Instructions for Use

Version: 1.1.1
Revision date: 1-Sep-25

Human Echovirus IgM (ECHO IgM) Rapid Test Kit

Catalog No.: abx092093

Size: 20 / 40 tests

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

Application: For qualitative detection of Human Echovirus IgM in serum and whole blood.

Introduction and assay principle

Abbexa's Human Echovirus IgM Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Human Echovirus IgM present in the samples combines with colloidal gold particle-labelled Echovirus antigen in the sample well, and the complex diffuses to the test area. The test line is coated with anti-Human IgM antibodies which capture the complex. When the concentration of Human Echovirus 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 Echovirus 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:** Test samples directly. Unused sample can be stored standing at 4°C for up to 7 days.

Assay procedure

Allow Sample Diluent and sample to equilibrate to room temperature prior to detection.

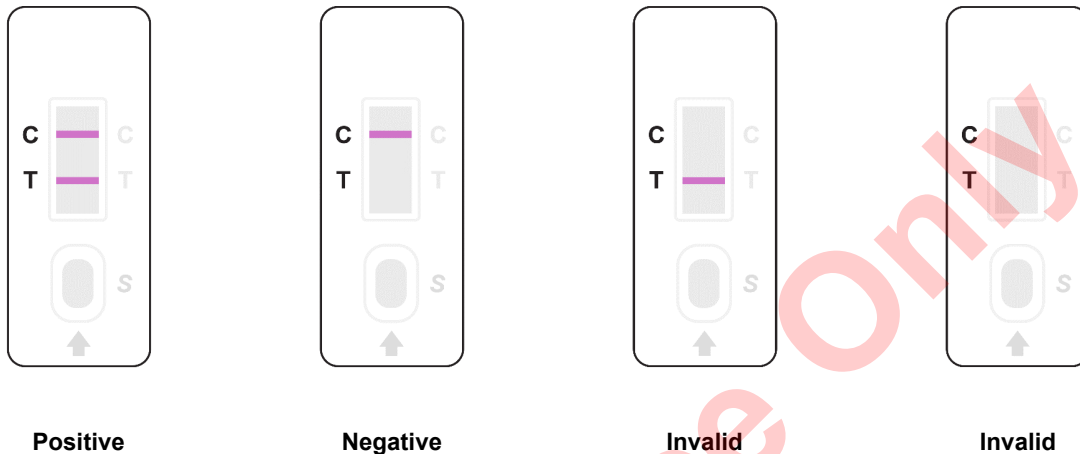
1. Take a test cassette and lay it flat on a clean table. Add 10 µl of serum, or 20 µl of whole blood, to the sample well on the test cassette, then add 2 drops (100 µl) of Sample Diluent. Avoid foaming.
2. Leave at room temperature for 15 – 20 minutes, then analyze the result.

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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 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 pipette tips 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. Results should be analyzed within 20 minutes.
8. This kit is for qualitative detection of Human Echovirus IgM in serum and 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.
9. Avoid contaminated, hemolytic or lipidemic samples.
10. 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.
11. 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.