

## Instructions for Use

Version: 1.0.2  
Revision date: 9-Sep-22

### Human Hantavirus IgG/IgM (HV IgG/IgM) Rapid Test Kit

**Catalog No.:** abx092094

**Size:** 20 tests

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

**Application:** For qualitative detection in human serum.

#### Introduction and assay principle

Abbexa's Human Hantavirus IgG/IgM (HV IgG/IgM) Rapid Test Kit is a lateral flow immunoassay which can detect antibodies against Hantavirus. The sample pad inside the cassette contains gold nanoparticles coated with Hantavirus antigen. Antibodies against human IgM and IgG are coated in their respective regions on a nitrocellulose membrane, creating the test lines, and Hantavirus antibodies are coated on the control line. The control region on the upper end of the cassette confirms if the test has been successful.

#### Kit Components

- Test cassettes: 20
- Sample diluent: 1 vial

#### Material Required But Not Provided

- Timer
- High-precision pipette and sterile pipette tips

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

#### Assay procedure

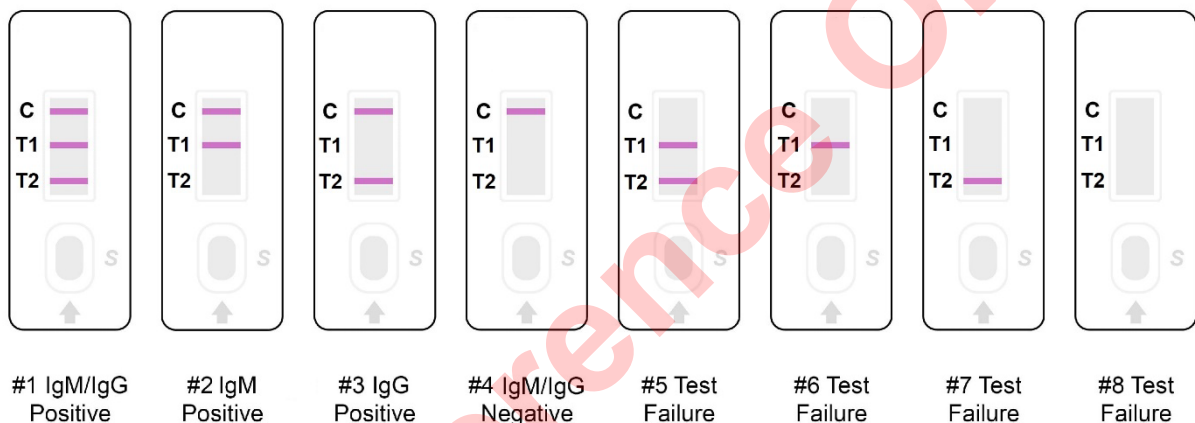
1. Take a test cassette and lay it flat on a clean table. Using a pipette, slowly and vertically add 10 µl of serum, followed by 2 drops (approximately 100 µl) of sample diluent to the sample well on the test cassette. Avoid foaming. Do not contaminate the sample diluent vial.
2. Leave at room temperature for 15-20 min, then analyze the result.

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### Results analysis

- **IgM and IgG Positive result:** A colored line is observed in the control (C) section and both test sections (T1 and T2).
- **IgM Positive result, IgG Negative result:** A colored line is observed in the control (C) section and the first test section (T1) but not the second test section (T2).
- **IgG Positive result, IgM Negative result:** A colored line is observed in the control (C) section and the second test section (T2) but not the first test section (T1).
- **IgM and IgG Negative result:** A colored line is observed in the control (C) section but not in the test sections (T1 and T2).
- **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 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 Hantavirus IgG/IgM (HV IgG/IgM) antibodies in human serum. 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. 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.