（**FOR RESEARCH USE ONLY. DO NOT USE IT IN CLINICAL DIAGNOSIS !**）

Human Hantavirus (HV) IgM/IgG Lateral Flow Assay Kit

Catalog No: E-HD-C019

20T/40T

This manual must be read attentively and completely before using this product.

If you have any problems, please contact our Technical Service Center for help.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Email: techsupport@elabscience.com

Website: www.vetassay-elab.com

Please kindly provide us the lot number (on the outside of the box) of the kit for more efficient service.

Test principle

This kit applies the Capture-Immunochromatography method as its principle, and can be used for the detection of Hantavirus (HV) IgM/IgG in human serum. The quality control (C) line is pre-coated with HV polyclonal antibody, the detection (T) line is pre-coated with anti-human IgM/IgG antibody. The gold pad is coated with gold-labeled HV antigen. HV IgM/IgG in sample will combine with gold-labeled HV antigen and form a gold-labeled antigen-antibody complex. The complex will then move along the detection card and react with the pre-coated anti-human IgM/IgG antibody on the detection line (T-line) and form the Anti-human IgM/IgG antibody- HV IgM/IgG antibody-HV antigen immunological complex, then a visible line will appear in the detection area. If there is no HV IgM/IgG antibody or HV IgM/IgG antibody content is lower than the detection limit, there will be no complex or precipitation line appeared.

Kit components

Item	Specification
Detection card	20 T
Sample Diluent	1 vial
Manual	1 copy

Note: All reagent bottle caps must be tightened to prevent evaporation and microbial pollution.

Notes

1. Please read the manual carefully before use, changes of operation may result in unreliable results.
2. Do not use product out of date or in a broken aluminum foil, it is disposable and cannot be used repeatedly.
3. The detection card should be brought to room temperature before opening after take it out from the refrigerator. The opening detection card should be used as soon as possible.
4. Please do not use but not limited to the following liquids for negative control: Water, PBS.
5. The tested sample should be fresh and clear. Avoid of using samples of turbidity, polluted, high hemolysis or abnormal viscous.
6. Avoid of touching the chromatography membrane of the sample well and test well.
7. The waste of experiment should be considered as contaminant, and must be properly handled according to the local regulations.
8. Each reagent is optimized for use in the **E-HD-C019**. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other **E-HD-C019** with different lot numbers.

Storage and expiry date

Storage: Store at 4-30℃. With cool and dry environment, avoid freeze.

Expiry date: expiration date is on the packing box.

Sample preparation

1. **Serum:** Use the conventional method to prepare serum, the serum must be clear, no hemolysis and no pollution. Samples can be conserved at 2-8℃ in 1 week, and it should be stored at - 20℃ for a long term storage.

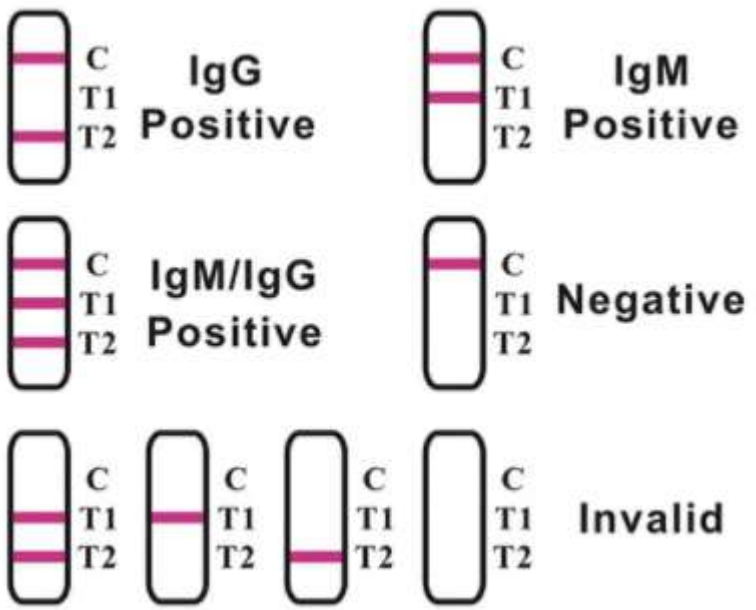
Assay procedure

Allow all kit components and sample to reach room temperature (25℃) prior to testing.

1. Tear the aluminum foil bag of the detection card and take out the detection card, and put it on a smooth, clean table.
2. Add 10 μL of **Serum** and 2 drops (about 100 μL) of **Sample Diluent** to the sample well vertically and slowly (Avoid foaming).
3. Incubate for 15 to 20 minutes and then judge the results immediately.

Judgment of result

1. **Positive:** Red line appears in both test line (IgG or IgM) and control line (C).The purplish red band on the IgG line indicates that IgG is detected; the purplish red band on the IgM line indicates that IgM is detected.
2. **Negative:** Only the control line region (C) shows a line in the observation well.
3. **Invalid:** No color line appears in control line (C). It indicates that the operation is wrong or the detection card is invalid, please carry out another detection.



Interpretation of results

1. The negative result reveals that there is no HV-IgM/IgG in the sample. If there is a corresponding acute symptom, then HV infection cannot be excluded.
2. The positive result reveals that there is HV-IgM/IgG in the sample. It might be infected with HV-IgM/IgG, and the result should be combined with other methods to analyze.

Limitations of this test method

1. This kit can only be used for qualitative detection of HV-IgM/IgG in serum of human.
2. The detection results of this kit are only for reference. For confirmation of the result, please combine the symptoms and other methods of detection, this detection cannot be used as the only criteria for result.