Human Ferritin Rapid Test

Catalog No.: abx472037

Size: 100 tests

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

Application: For qualitative detection of Ferritin in Human whole blood, serum and plasma samples.

Introduction and Assay Principle
Abbexa's Human Ferritin Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any ferritin present in the samples combines with the colloidal gold particle-labelled ferritin antibody. When the concentration of ferritin in the sample is greater than the detection limit, the ferritin-antibody complex is captured by the immobilized anti-ferritin antibody on the test line and the result is positive. When the concentration of ferritin 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
- Buffer Solution

Material Required But Not Provided

- Timer

A. Sample preparation

The following sample preparation methods are intended as a guide and may be adjusted as required depending on the specific samples used.

- **Serum and Plasma:** Serum and plasma samples should be collected using conventional methods and stored between 2 – 8°C for short-term storage (up to 3 days) or -20°C for long-term storage.
- **Whole Blood:** Whole blood should be anticoagulated and tested immediately or stored at 2 – 8°C for up to 2 days. Do not freeze.

Note:

- Fresh samples or recently obtained samples are recommended to prevent degradation and denaturalization that may lead to erroneous results.
- Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, lipemic or viscous samples.

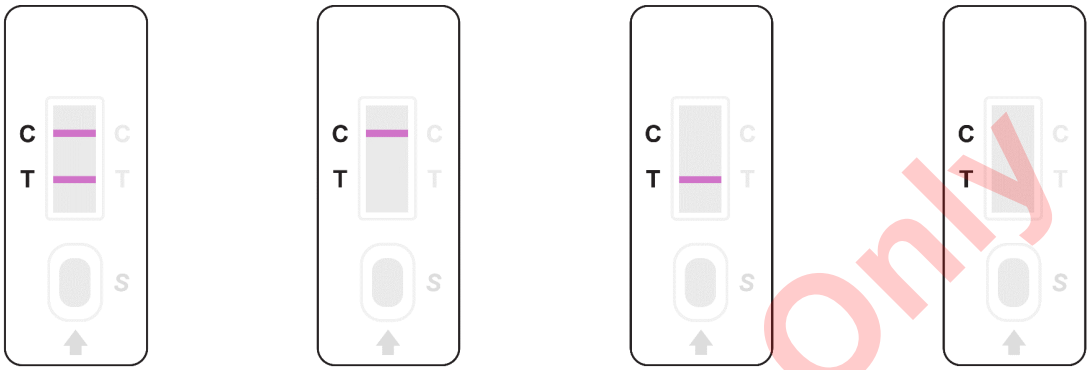
B. Assay procedure

1. Take a test cassette and lay it flat on a clean table. Using the provided pipette, slowly and vertically add 1 drop of serum / plasma (approximately 30 µl) or 2 drops of whole blood (approximately 50 - 60 µl) to the sample (S) well on the test cassette. Avoid foaming.
2. Add 1 drops of Buffer Solution (approximately 40 µl) to the sample (S) well.
3. Leave at room temperature for 10 minutes, then analyze the result. Do not interpret results after 15 minutes.

For Reference Only

C. 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.



Positive **Negative** **Invalid** **Invalid**

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 pipettes to avoid cross-contamination.
5. Avoid touching the cassette membrane through the sample well or test result window.
6. This kit is for qualitative detection of Ferritin in Human serum, plasma 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.
7. This kit is for research use only and the results are for reference only.
8. 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.

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