

## Instructions for Use

Version: 1.0.2  
Revision date: 7-Oct-22

### Human Tuberculosis IgG Rapid Test Kit

**Catalog No.:** abx092084

**Size:** 20 tests

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

**Application:** For qualitative detection in human serum or whole blood.

#### Introduction and assay principle

Abbexa's Human Tuberculosis IgG Rapid Test Kit is a lateral flow immunoassay which can detect IgG antibodies against *Mycobacterium tuberculosis*. The sample pad inside the cassette contains mouse anti-human IgG coated with gold nanoparticles. The control region on the nitrocellulose membrane is coated with goat anti-mouse IgG antibodies, and the test region is coated with *Mycobacterium tuberculosis* antigen. When the concentration of Human Tuberculosis IgG 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 Tuberculosis IgG in the sample solution is less than the detection limit, there is no color change in the detection line and the result is negative. The control region on the upper end of the cassette confirms if the test has been successful.

#### Kit Components

- Test cassettes: 20

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

#### Assay procedure

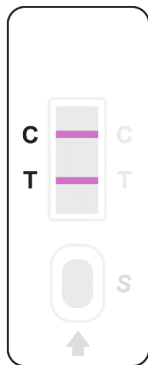
1. Take a test cassette and lay it flat on a clean table. Using a pipette, slowly and vertically add 2 drops of serum or 100 µl of whole blood to the sample well on the test cassette. Avoid foaming.
2. Leave at room temperature for 15-20 min, then analyze the result.

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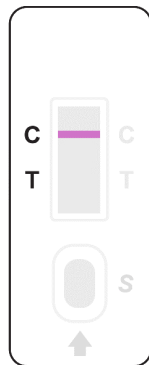
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### Results analysis

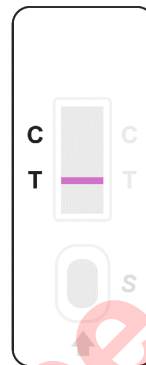
- **Positive result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Negative result:** A colored line is observed in the control (C) section but not the test (T) section.
- **Invalid result:** No colored line is observed in the control (C) section.



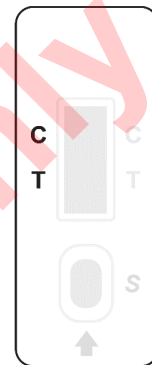
**Positive**



**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 the disposable 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 Human Tuberculosis IgG in human serum or whole blood samples. For other sample types such as plasma, a preliminary experiment is recommended to determine compatibility with this kit.
7. 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.
8. 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.