

Human SARS-CoV-2 IgM/IgG Antibody Rapid Test Kit



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Catalog #100-0685

1 Kit

Product Description

The Human SARS-CoV-2 IgM/IgG Antibody Rapid Test Kit is used for the qualitative detection of IgM and IgG antibodies of SARS-CoV-2 in human serum, plasma, or whole blood in vitro.

During infection, IgG and IgM are the most common antibody markers detected in blood. The IgM antibody is generally the first antibody detected during the preliminary stages of infection and is used as a marker of acute infection. As infection progresses, the concentration of IgM antibodies gradually decreases and disappears with the appearance of IgG antibodies. IgG antibodies usually exist in the body for a long time, even after the virus has been completely eliminated.

Product Information

All components listed below are stable until expiry date (EXP) on label. Once components are opened, use within 1 month.

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	DESCRIPTION
Human SARS-CoV-2 IgM/IgG Antibody Rapid Test Card	300-0282	25 cards	Store at 2 - 8°C.	Plastic card with a test strip consisting of a nitrocellulose membrane coated with antibodies, a binding pad, and a sample pad
Human SARS-CoV-2 IgM/IgG Antibody Rapid Test Diluent	300-0283	4 mL	Store at 2 - 8°C.	Phosphate-buffered solution, pH 6.5 - 8.0
Pasteur Pipettes	300-0284	25 pipettes	Store at 2 - 8°C.	For adding sample and diluent to the test card

Materials Required But Not Included

- Timer

Sample Preparation

NOTE: Avoid using lipemic, hemolyzed, or contaminated samples, as these may yield unreliable results.

A. Serum

1. Using a serum separator tube (SST), allow samples to clot at room temperature (15 - 25°C) for 2 hours or overnight at 2 - 8°C.
2. Centrifuge at 1000 x *g* for 15 minutes. Collect the serum fraction and transfer to a new tube.
3. Gently invert sample 5 - 10 times to mix.
4. Proceed to Directions for Use.

NOTE: If not used immediately, store samples at 2 - 8°C for 48 hours or at -20°C for up to 3 months. Avoid repeated freeze-thaw cycles.

B. Plasma or Whole Blood

1. Collect plasma or whole blood using EDTA, heparin, or sodium citrate as an anticoagulant.
2. Immediately after collection, gently invert sample 5 - 10 times to mix.
3. Proceed to Directions for Use.

NOTE: If not used immediately, store samples at 2 - 8°C for 48 hours or at -20°C for up to 3 months. Avoid repeated freeze-thaw cycles.

Directions for Use

Please read the entire protocol before proceeding.

1. Bring all reagents and samples to room temperature (15 - 25°C).
2. Prepare samples as described in Sample Preparation.

3. Remove the Human SARS-CoV-2 IgM/IgG Antibody Rapid Test Card from the foil pouch and place it horizontally on the table.
NOTE: Test strip should be used within 20 minutes of opening the foil pouch.
4. Using a Pasteur pipette, add the sample to the test card sample hole, as follows:
 - For serum or plasma samples: Add 1 drop (10 μ L)
 OR
 - For whole blood samples: Add 2 drops (20 μ L)
5. Add 2 drops of Human SARS-CoV-2 IgM/IgG Antibody Rapid Test Diluent (directly from the bottle) to the sample hole.
6. Read the result within **15 minutes** (see Assay Interpretation); after 18 minutes, results are invalid.

Assay Interpretation

Positive results

Refer to Figure 1 for images of the three types of positive results, as follows:

- Test line (M) and Control line (C) show color bands: Sample is positive for SARS-CoV-2 **IgM antibody**
- Test line (G) and Control line (C) show color bands: Sample is positive for SARS-CoV-2 **IgG antibody**
- Test lines (M) and (G) and Control line (C) all show color bands: Sample is positive for SARS-CoV-2 **IgM and IgG antibodies**

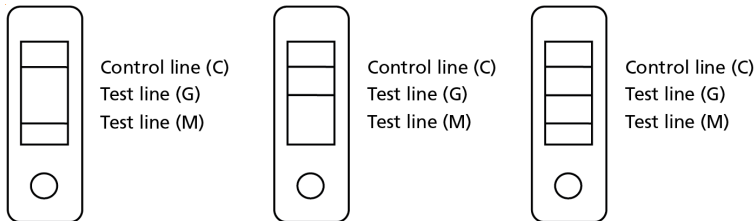


Figure 1. Positive Results

Negative result

The Control line (C) develops color, and neither the G nor M Test lines develop color bands:
Sample is negative for SARS-CoV-2 IgG and IgM antibodies (Figure 2).

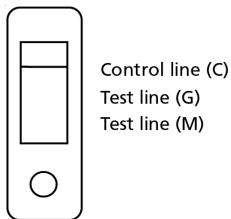


Figure 2. Negative Result

Invalid results

No band appears on the Control line (C):

Invalid result regardless of whether the Test line (G) and/or (M) develops a color band (Figure 3).

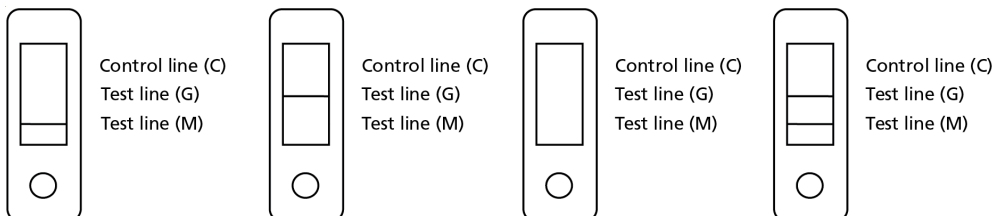


Figure 3. Invalid Results

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