



Immune Technology Corp.

The Resource for Virology Research

Antibody Detection Kit for H7N9 Hemagglutinin Specific Human IgG (ELISA)

Catalog Number: IT-E3Ab-IgG(H7N9)

Description: Antibody Detection Kit for Influenza virus H7N9 Hemagglutinin (HA) Specific Human IgG is developed for qualitative analysis of anti-H7N9 IgG concentrations in human serum or other biological sources. The components supplied in this kit are sufficient to perform the assay in one (1) 96-well ELISA plate.

COMPONENTS PROVIDED

1. **H7N9 HA Protein Coated Microtiter Plate**
2. **Human IgG Detection Antibody with Conjugated HRP:** 20 μ L. Dilute to 12 mL with the Detection Antibody Diluent before use.
3. **Positive Control:** 0.8mL
4. **Negative Control:** 0.8mL
5. **Substrate A:** 8mL
6. **Substrate B:** 8mL
7. **Stop Solution:** 8mL
8. **Detection Antibody Diluent:** 12mL
9. **Sample Diluent:** 20mL
10. **Wash Buffer Concentration (20x):** 30mL
11. **Plate Sealing Film:** Two

OTHER SUPPLIES REQUIRED

- Microtiter Plate Reader (450 nm).
- Microtiter Plate Washer.
- Pipettes, multi-channel pipettes and pipette tips.
- Deionized or distilled water.
- Polypropylene reagent tubes.
- 37°C incubator.

ASSAY PROCEDURE

1. **Serum Sample/Working Positive and Negative Control:**
 - a. Dilute serum samples at 1:100 with Sample Diluent. Immediately add 100 μ L of the samples to each well in duplicate.
 - b. Add 100 μ L of Positive Control and Negative Control respectively to each well in duplicate.
 - c. Incubate for 45 minutes at 37°C.

2. **For Detection:**

- a. Aspirate and wash plate 4 times with 1x wash buffer.
- b. Dilute 20 μ L of Human IgG Detection Antibody with 12mL of Detection Antibody Diluent.
- c. Add 100 μ L of the detection solution into each well.
- d. Incubate for 30 minute at 37°C.

3. **Substrate/Stop:**

- a. Aspirate and wash plate 4 times with 1x wash buffer.
- b. Add 100 μ L of the mixture of Substrate A and B into each well.
- c. Incubate at 37°C for 30 minutes.
- d. Then add 50 μ L of Stop Solution to each well.

4. **Read:** Determine the optical density of each well within 30 minutes, using a microplate reader set to 450nm.

5. **Results and Analysis:**

- a. **Cutoff Value Calculation:** 2.5 times of OD450nm average at Negative Control wells.
- b. **The sample is determined to be H7N9 IgG Antibody Positive,** if the average of the OD450nm values of a serum sample is greater than (or equal to) the cutoff value.
- c. **The sample is determined to be H7N9 IgG Antibody Negative,** if the average of the OD450nm values of a serum sample is less than the cutoff value.

STORAGE

Keep it at 4°C if used within a month. For long term storage, split it into small aliquots and keep at -80 °C . Avoid repeated freezing and thawing. The product will be expired one year after receiving if stored properly. Non-hazardous. No MSDS required.

EXPIRY DATE

6 months from the date of manufacture.

For Research Purpose Only!