



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

- H7N9 HA Protein Coated Microtiter Plate**
- Human IgG Detection Antibody with Conjugated HRP:** 20 μ L. Dilute to 12 mL with the Detection Antibody Diluent before use.
- Positive Control:** 0.8mL
- Negative Control:** 0.8mL
- Substrate A:** 8mL
- Substrate B:** 8mL
- Stop Solution:** 8mL
- Detection Antibody Diluent:** 12mL
- Sample Diluent:** 20mL
- Wash Buffer Concentration (20x):** 30mL
- 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

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

- For Detection:**

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

- Substrate/Stop:**

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

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

- Results and Analysis:**

- Cutoff Value Calculation:** 2.5 times of OD450nm average at Negative Control wells.
- 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.
- 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

2-8°C

EXPIRY DATE

6 months from the date of manufacture.

For Research Purpose Only!