AbMax Biotechnology Co., LTD
99Kechuang 14th Street, Building 18,
2-201B, BDA, Beijing, China. 101111
Tel: 86-10-59755729, Fax: 86-10-59755718
E-mail: info@antibodychina.com
Website: www.antibodychina.com

SARS-CoV-2 Vaccine Quantitation ELISA Kit

【Generic Name】

SARS-CoV-2 Vaccine Quantitation ELISA Kit
Catalog number:17-0096
Package Size:96T

【Intended Use】

To detect the contents of inactivated SARS-CoV-2 in the blood samples.

【Principle】

This product adopts the principle of Double Antibody Sandwich Method (Sandwich Elisa). The flat-bottom 96-well plates are coated with anti-SARS-CoV-2 S1 protein polyclonal antibodies. After adding the samples, discard the free antibodies by washing the plates. Then add the HRP-labeled anti-SARS-CoV-2 S1 protein antibodies to the plates, to form a coated antibody-antigen-HRP Labeled antibody complex. The content of the inactivated SARS-CoV-2 can be detected by the degree of TMB color development.

【Materials and Reagents】

1. Antibody Coated plate, 8 wells ×12
2. 100x Enzyme-conjugated antibody , 120μl×1 vial (diluted 100 times for use)
3. Standard, 120μl×1 vial
4. BSA, 3g ×1 piece
5. 20× Wash Buffer, 50mL×1 vial
6. Substrate Solution A, 7mL×1 vial
7. Substrate Solution B, 7mL×1 vial
8. Stop buffer 7mL×1 vial
9. Sealing plate film, 2 pieces

【Storage】

1. All components in the kit remain stable before the expiration date indicated on the label if stored at 2-8℃, do not freeze and avoid light.
2. After unpacking, please keep it sealed for further use within three months.

【Materials Required】

The following reagents and consumables are not included in the kit and needs to be prepared beforehand.

1. **Water:** freshly distilled or deionized.
2. Disposable gloves, timer and appropriate waste containers
3. 1XPBS, 0.01M PBS PH 7.4

【Protocol for Detection】

1. Equilibration
   Equilibrate the required reagents at room temperature (18~25℃) for 30 minutes.
2. Solution PREPARATION: Please configure the reagents before use.

AbMax Biotechnology Co., LTD
99Kechuang 14th Street, Building 18,
2-201B, BDA, Beijing, China. 101111
Tel: 86-10-59755729, Fax: 86-10-59755718
E-mail: info@antibodychina.com
Website: www.antibodychina.com

2.1 1×washing solution: Take 1 bottle of 20×washing solution, dilute it to 1000ml with deionized water, mix well for later use.

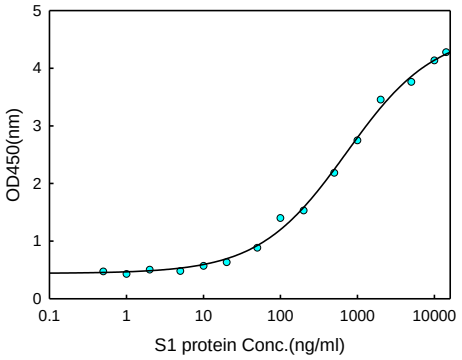
2.2 Dilution buffer: Dissolve BSA (3g/pack) completely into 100ml of 1×PBS buffer, mix well for later use.

2.3 Enzyme solution: Take the required enzyme conjugate, dilute it 100 times with the dilution buffer prepared in step 2.2, mix well for later use.

3. Adding standard and samples
   Remove the coated plate from the sealed bag and dilute the standard to the different concentrations (0ng/ml, 50ng/ml, 100ng/ml, 200ng/ml, 400ng/ml, 800ng/ ml, 1600ng/ml, and 3200ng/ml). After adding 100μl of standard or sample to each well, seal the plate with sealing film. Place the plate in a shaking incubator (37°C, 200 rpm) and incubate for 60 minutes
4. Washing
   Discard the liquid in each well, fill the microwells (350μl/well) with 1× washing solution, and discard the liquid in the wells after 30 seconds. Repeat these steps for 3 times, then pat the plate on the paper towel after the last wash.
5. Adding enzyme solution
   Add the enzyme solution (prepared in step 2.3) to the microplate (100μl per well). Seal the plate with sealing film. Place the plate in a shaking incubator (37°C, 200 rpm) and incubate for 60 minutes.
6. Washing
   Repeat step 4.
7. Coloring
   Add 50μl each of Substrate Coloring Solution A and B into each well. Mix well with gentle tapping. Then incubate the plate at room temperature for 10 minutes in the dark.
8. Termination
   Terminate the reaction by adding 50μl of Stop buffer into each well and mix gently. Set the main wavelength of the microplate reader at 450nm and the reference wavelength at 630nm. Measure the absorbance (OD value) of each well.

【Data Analysis】

It is recommended to adopt the fitting method of four parameters or double logarithm for fitting and calculation.



【Product Performance Index】

Sensitivity：100ng/ml.

AbMax Biotechnology Co., LTD
99Kechuang 14th Street, Building 18,
2-201B, BDA, Beijing, China. 101111
Tel: 86-10-59755729, Fax: 86-10-59755718
E-mail: info@antibodychina.com
Website: www.antibodychina.com

【Limitations】

1. This kit is only used to measure the content of inactivated SARS-CoV-2 in blood samples.
2. Results out of the measurement range of the kit are unreliable.
3. Severe hemolysis, chyle, and bilirubin samples may cause abnormal test results.
4. This kit is developed for in vitro research only

【Caution】

1. Avoid cross contamination.
2. Follow reader measure as a standard.
3. All samples and buffers should be added or removed with pipette.
4. Do not mix reagents from different batches.

可能有一个关键的部分，说明书没有明确出来，2.2中Dilution buffer配制2.2 Dissolve BSA (3g/pack) completely into 100ml of 1×washing solution PBS buffer, mix well for later use. 3%的BSA溶液，是将3g的BSA稀释到100ml的PBS中，PBS试剂盒中未提供需要您自己来准备，说明书中washing solution是PBST。