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Datasheet for ABIN6952529

SARS-CoV-2 IgG Antibody ELISA Kit

Overview

Antigen:	SARS-CoV-2 IgG Antibody
Reactivity:	SARS Coronavirus (SARS-CoV)
Method Type:	Sandwich ELISA
Detection Range:	4 pg/mL - 64 pg/mL
Minimum Detection Limit:	4 pg/mL
Application:	ELISA

Catalog no.	Price	Quantity	Availability
ABIN6952529 SARS-CoV-2 IgG Antibody ELISA Kit	Please check our website for current price.	**96 tests**	**Available** Delivery in 3 to 4 Business Days (Ships to: Asia)

Product Details

Purpose:	ELISA for the Quantitative determination of Human Coronavirus antigen in respiratory specimens and sera
Sample Type:	Respiratory Specimen, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	The antibodies used in the kit are monoclonal antibodies specific for human SARS-CoV glycoprotein. The standard used is a recombinant human SARS-CoV protein.
Characteristics:	Enzyme Immunoassay for the Quantitative determination of Human Coronavirus antigen in respiratory specimens and serum. Precoated plates using antibodies to human coronavirus protein for capture/detection
Components:	• Coronavirus IgG Antibody Coated Microtiter Plate (12 x 8 wells) - 1 no • Concentrated Standard, Human Coronavirus IgG (128 pg/ml) - 0.5 ml • Biotinylated Coronavirus IgG Antibody - 1 ml

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Product Details

- Streptavidin-HRP Conjugate - 6 ml
- Standard Diluent - 3 ml
- 30X Wash Buffer - 20 ml
- Substrate A - 6 ml
- Substrate B - 6 ml
- Stop Solution - 6 ml

Material not included:

- Microtiter Plate Reader able to measure absorbance at 450 nm.
- Adjustable pipettes and multichannel pipettor to measure volumes ranging from 25 **µL to 1000 µL**
- Deionized (DI) water
- Wash bottle or automated microplate washer
- Graph paper or software for data analysis
- Timer
- Absorbent Paper

Target Details

Antigen:	SARS-CoV-2 IgG Antibody

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Plate:	Pre-coated
Protocol:	The method employs sandwich ELISA technique. Monoclonal antibodies are pre-coated onto microwells. Samples and standards are pipetted into microwells and Coronavirus present in the sample are bound by the antibodies. Biotin labeled antibody is added and followed by Streptavidin-HRP is pipetted and incubated to form a complex. After washing microwells in order to remove any non-specific binding, the substrate solution(TMB) is added to microwells and color develops proportionally to the amount of Coronavirus in the sample. Color development is then stopped by addition of stop solution. Absorbance is measured at 450 nm.
Sample Collection:	Specimens should be clear and non-hemolyzed. Samples should be run at a number of dilutions to ensure accurate quantitation. • Extract as soon as possible after specimen collection as per relevant procedure. The

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Application Details

samples should be tested as soon as possible after the extraction. Alternately the extracted samples can be kept in -20 **°C. Avoid repeated freeze-thaw cycles.**

- Serum- Coagulate at room temperature for 10-20 **minutes, centrifuge for 20-min at 2000-3000 rpm. Remove the supernatant. If precipitation appears, recentrifuge.**
- Respiratory Specimens- Collect sample in a sterile container. Centrifuge for 20-mins at 2000-3000 rpm. Remove the supernatant carefully.

Assay Procedure:

1. It is strongly recommended that all Standards and Samples be run in duplicates or triplicates. A standard curve is required for each assay.
2. Add 50 **µL Standard to standard well. Note: Do not add Biotinylated Coronavirus IgG Antibody to standard well because the Standard Solution contains the biotinylated antibody.**
3. Add 40 **µL Sample to respective sample wells.**
4. Pipette 10 **µL Biotinylated Coronavirus IgG Antibody to respective sample wells.**
5. Pipette 50 **µL Streptavidin-HRP Conjugate to respective sample wells and also the standard wells.**
   Note: Do not add the Streptavidin-HRP Conjugate to the blank well.
6. Mix well. Cover the plate with a sealer and incubate for 60 **minutes at 37 °C.**
7. Aspirate and wash plate 4 times with diluted Wash Buffer (1X) and blot residual buffer by firmly tapping plate upside down on absorbent paper. Wipe of any liquid from the bottom outside of the microtiter wells as any residue can interfere in the reading step.
8. Pipette 50 **µL Substrate A followed by 50 µL Substrate B in all the wells.**
9. Incubate the plate at 37 **°C for 10 minutes. DO NOT SHAKE or else it may result in higher backgrounds and worse precision. Positive wells should turn bluish in color.**
10. Pipette 50 **µL Stop Solution in all wells. The wells should turn from blue to yellow in color.**
11. Read the absorbance at 450 nm with a microplate within 10-15 **minutes after addition of Stop solution.**

Calculation of Results:

Determine the Mean Absorbance for each set of duplicate or triplicate Standards and Samples. Using Graph Paper, plot the average value (absorbance 450nm) of each standard on the Y-axis versus the corresponding concentration of the standards on the X-axis. Draw the best fit curve through the standard points. To determine the unknown Coronavirus concentrations, find the unknown's Mean Absorbance value on the Yaxis and draw a horizontal line to the standard curve. At the point of intersection, draw a vertical line to the Xaxis and read the Coronavirus Concentration.

Restrictions:

For Research Use only

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Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store main kit components at 2-8°C. Store recombinant Standard at -20°C. Aliquot recombinant protein and detection antibody into polypropylene vials and store at -20°C as per assay requirements. Do not freeze thaw for more than two times. Before using, bring all components to room temperature (18-25°C). Upon assay completion return all components to appropriate storage conditions. The Substrate is light-sensitive and should be protected from direct sunlight or UV sources.

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Pos.	Product-ID	Product-Name	Amount
1.	ABIN6952529	SARS-CoV-2 IgG Antibody ELISA Kit	
2.			
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I took note of and accepted the terms and conditions of antibodies-online GmbH (https://www.antibodies-online.com/terms/).

Place, Date Signature