Datasheet for ABIN7425328

SARS-CoV-2 Spike ELISA Kit

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Overview

Quantity:	96 tests
Target:	SARS-CoV-2 Spike
Binding Specificity:	Trimer
Reactivity:	SARS CoV-2 Omicron, SARS Coronavirus-2 (SARS-CoV-2)
Method Type:	Sandwich ELISA
Detection Range:	3.13 - 200 ng/mL
Minimum Detection Limit:	3.13 ng/mL
Application:	ELISA

Product Details

Purpose:	This kit is developed for detecting SARS-CoV-2 Spike Trimer (XBB.1.5) in the sample, simultaneously candetect Omicron (BA.2 and BA.4 and BA.5 and BQ.1.1).
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This kit is developed for detecting SARS-CoV-2 Spike RBD (XBB.1.5) in the sample, simultaneously can detect Omicron (BA.2 and BA.4 & BA.5 and BQ.1.1).
Characteristics:	This assay kit is used to measure the levels of SARS-CoV-2 Spike Trimer (XBB.1.5) by employing a standard sandwich-ELISA format. The microplate in the kit has been pre-coated with Anti-SARS-CoV-2 Spike Trimer Antibody. First add the standard samples provided in kit and your samples to the plate, incubate and wash the wells. Then add the Biotin-Anti-SARS-CoV-2 Spike Trimer Antibody to the plate, incubate and wash the wells. Next add Streptavidin-HRP to

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	the plate, incubate and wash the wells. Lastly load the substrate into the wells and monitor color development in proportion with the amount of Spike Trimer (XBB.1.5) present. The reaction is stopped by the addition of a stop solution and the intensity of the absorbance can be measured at 450 nm and 630 nm. The OD Value reflects the amount of Spike Trimer bound.
Components:	• Pre-coated Anti-SARS-CoV-2 Spike Trimer Antibody Microplate • SARS-CoV-2 Spike Trimer (XBB.1.5) • Biotin-Anti-SARS-CoV-2 Spike Trimer Antibody • Streptavidin-HRP • 10 x Washing Buffer • Dilution Buffer • Substrate Solution • Stop Solution
Material not included:	Single or dual wavelength microplate reader with 450 nm and 630 nm filter, Centrifuge, 37ºC Incubator, 10 µL, 200 µL and 1000 µL precision pipettes, 10 µL, 200 µL and 1000 µL pipette tips, Multichannel pipettes, Tubes, Graduated cylinder to prepare Wash Solution, Deionized or distilled water to dilute 10× Washing Buffer

Target Details

Target:	SARS-CoV-2 Spike
Abstract:	SARS-CoV-2 Spike Products
Background:	The newly identified Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) has posed a serious threat to human health. A rapid and effective assay kit detecting the levels of SARS-CoV-2 Spike Trimer is urgently needed to accelerate the development of COVID-19 vaccines.

Application Details

Plate:	Pre-coated
Protocol:	1. Bring all reagents and samples to room temperature (20*℃-25℃) before use.* 2. Add your sample to the plate, take the SARS-CoV-2 Spike as Control sample. The samples and Control sample are diluted by Dilution Buffer. 3. Add the Secondary antibody biotin-Anti-SARS-CoV-2 Spike Antibody diluted by Dilution Buffer to the plate. 4. Add the diluted Streptavidin-HRP to the plate. 5. Wash the plate and add TMB or other colorimetric HRP substrate. 6. Stop the substrate reaction by adding diluted acid. Absorbance (OD) is calculated as the

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	absorbance at 450 nm minus the absorbance at 650 nm to remove background prior to statistical analysis. The OD Value reflects the amount of protein bound.
Restrictions:	For Research Use only

Handling

Storage:	4 °C
Storage Comment:	The unopened kit is stable for 12 months from the date of manufacture if stored at 2°C to 8°C. The opened kit should be stored per components table. The shelf life is 30 days from the date of opening.
Expiry Date:	6 months