



Human SARS-CoV-2 S1 RBD IgG Antibody ELISA Kit

Product Code	CSB-EL33241HU
Abbreviation	SARS-CoV-2 S RBD Ab (IgG)
Uniprot No.	P0DTC2
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Infectious Diseases
Quality Control	<p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm.</p> <p>An incubator that can provide stable incubation conditions up to 37°C±5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer.</p> <p>Absorbent paper for blotting the microtiter plate.</p> <p>50-300ul multi-channel micropipette</p> <p>100ml and 500ml graduated cylinders.</p> <p>Deionized or distilled water.</p> <p>Pipette tips</p> <p>Timer</p> <p>Test tubes for dilution.</p>
Tag Info	qualitative
Protein Description	Indirect
Component	<p>A 96-well Coated assay plate 1 -- This microplate has been pre-coated with human SARS-CoV-2 S1 RBD antigen.</p> <p>Negative Control (1 x 800 µl) -- It is free of the SARS-CoV-2 S1 RBD IgG antibody and used to preclude the false positive.</p> <p>Positive Control (1 x 800 µl) -- Used to evaluate the validity, stability, and comparability of the test results.</p> <p>HRP-conjugated anti-Human IgG antibody (100 x concentrate) (1 x 120 µl) -- Act as the detection antibody.</p> <p>HRP-conjugate Diluent (1 x 20 ml) -- Dilute the HRPconjugated anti-Human IgG antibody.</p>



Sample Diluent (2 x 20 ml) -- Dilute the sample solution.

Wash Buffer (25 x concentrate) (1 x 20 ml) -- Wash the unbound reagent.

TMB Substrate (1 x 10 ml) -- React with HRP, eliciting a chromogenic color reaction.

Stop Solution (1 x 10 ml) -- Stop the color reaction. The solution turns from blue to yellow.

Four Adhesive Strips (For 96 wells) -- Seal the microplate when incubation.

An Instruction manual

Description

The product CSB-EL33241HU is an easy-to-use ELISA Kit intended for the qualitative detection of SARS-CoV-2 S1 RBD IgG antibody in human serum and plasma in vitro. SARS-CoV-2 S1 RBD IgG is an indicator of a recent or prior COVID infection. Infected patients develop IgG against SARS-CoV-2 S1 RBD 7 days post-infection, and IgG content peaks in the third week (IgM was close to vanishing at this time). IgG lasts in the blood for months or even years. After secondary infection, IgG levels in the body of patients increase rapidly and substantially in the short term and remain in the body for a long time, while IgM rarely increases. Serological testing may help to diagnose suspected patients with negative RT-PCR (real-time polymerase chain reaction) results and identify asymptomatic infections.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<15%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<15%

Three samples of known concentration were tested in twenty assays to assess.

Typical

Test parameter	specification	test result
Positive control	≥ 1.0	1.256
Negative control	≤ 0.25	0.193
Positive rate	20?Positive	100%
Negative rate	20?Negative	100%