

## 90-7004: SARS-CoV-2 (Spike RBD) IgG Serological ELISA Kit with false positive control

**Application :** ELISA

### Description

Coronaviruses (CoVs) are enveloped non-segmented positive-sense RNA virus for human and vertebrates. They are classified into four types,  $\alpha$ -CoV,  $\beta$ -CoV,  $\gamma$ -CoV, and  $\delta$ -CoV. They can infect respiratory, gastrointestinal, hepatic, and central nervous system of human and many other wild animals. The family Coronaviridae constantly circulate in the human population and mainly cause mild respiratory diseases. In December 2019, a new severe acute respiratory syndrome  $\beta$ -coronavirus called SARS-CoV-2 (or 2019-nCoV) has emerged, which causes an epidemic of acute respiratory syndrome (called coronavirus human disease 2019 or COVID-19). Typical clinical symptoms of these patients are dry cough, fever, breathing difficulties, headache and pneumonia. Disease onset may result in progressive respiratory failure and even death. SARS-CoV-2 has similarity to SARS-CoV. SARS-CoV-2 virus contains 4 structural proteins, spike (S), envelope (E), membrane (M) and nucleocapsid. The spike protein (S) is a transmembrane protein, composed of the S1 subunit and S2 subunit. The S1 subunit contains a receptor binding domain (RBD), which binds to the cell surface receptor Angiotensin-Converting Enzyme 2 (ACE2) present at the surface of epithelial cells, causing infection of human respiratory cells. During an infection, IgM antibody appears first, followed by IgA on mucosal surfaces or IgG in the serum. The spike (S), mainly the RBD domain and the nucleocapsid (N) are the main immunogens of Coronavirus leading to antibody answer.

### Product Info

<b>Amount :</b>	1 X 96 Tests
<b>Content :</b>	1 X 96 well Format (96 tests)
<b>Storage condition :</b>	Please refer to the Manual

### Application Note

This immunoassay kit detects human anti-SARS-CoV-2 (Spike, RBD) IgG antibodies in serum and plasma.