

CUSABIO

SARS-CoV-2 ELISA Kits

For Research Use Only

The outbreak of SARS-CoV-2 has become a global pandemic and an unprecedented public health issue. There are several methods to detect the presence of SARS-CoV-2 in samples, including RT-qPCR, immunochromatography (rapid test) and ELISA. Among of these methods, ELISA is a less complex procedure that uses more affordable and available equipment. This technique makes it possible to measure either SARS-CoV-2 antigens or antibodies to these antigens. CUSABIO has developed 3 types of ELISA kits to help you in your research.

SARS-CoV-2 Antigen Detection ELISA Kit

Product Name	Code	Detected Antigen	Sample Types	Detection Range	Sensitivity	Assay Principle	Measurement
SARS-CoV-2 N ELISA Kit	CSB-EL33251	N	serum, plasma, swabs	3.12-200ng/mL	0.78ng/mL	Quantitative	Sandwich
SARS-CoV-2 S1 RBD ELISA Kit	CSB-EL33244	S1 RBD	serum, plasma, swabs	1.25-80ng/mL	0.31ng/mL	Quantitative	Sandwich

SARS-CoV-2 Antibody Detection ELISA Kit

Product Name	Code	Detected Antibody	Antigen	Sample Types	Assay Principle	Measurement
Human SARS-CoV-2 N IgG Antibody ELISA Kit	CSB-EL3325HU	N IgG	N	serum, plasma	Qualitative	Indirect
Human SARS-CoV-2 N/S1 IgG Antibody ELISA Kit	CSB-EL3326HU	N/S1 IgG	N/S1	serum, plasma	Qualitative	Indirect
Human SARS-CoV-2 S1 RBD IgG Antibody ELISA Kit	CSB-EL33241HU	S1 RBD IgG	S1 RBD	serum, plasma	Qualitative	Indirect
Human SARS-CoV-2 S1 RBD IgM Antibody ELISA Kit	CSB-EL33242HU	S1 RBD IgM	S1 RBD	serum, plasma	Qualitative	Indirect

SARS-CoV-2 Neutralizing Antibody ELISA Kit

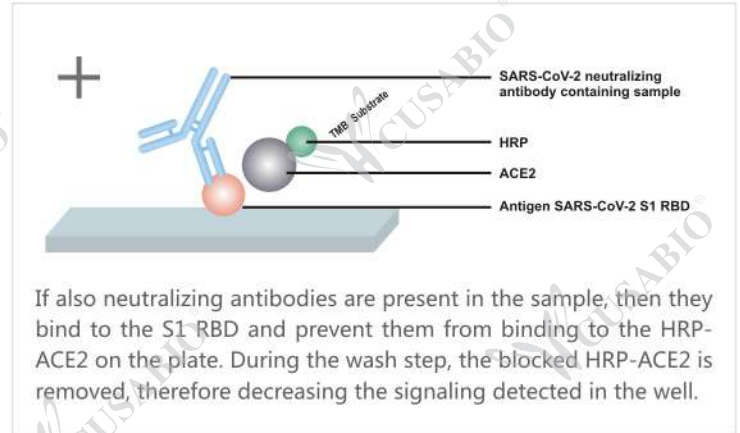
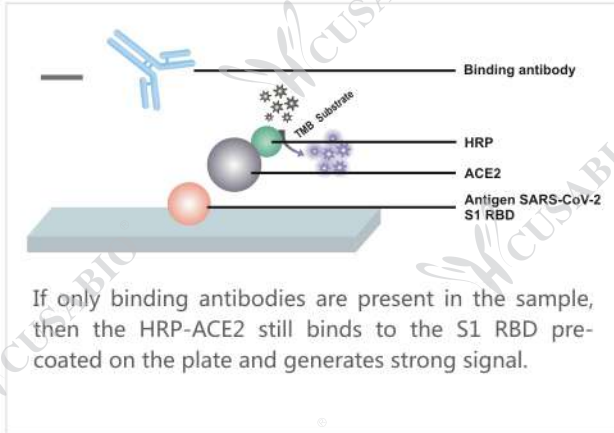
Product Name	Code	Detected Antibody	Antigen	Sample Types	Assay Principle	Measurement
SARS-CoV-2 Neutralizing Antibody ELISA Kit	CSB-EL33243HU	Neutralizing Antibody	S1 RBD	serum, plasma	Qualitative	Competitive

SARS-CoV-2 Neutralizing Antibody ELISA Kit

CUSABIO SARS-CoV-2 neutralizing antibody ELISA kit is used for the qualitative determination of SARS-CoV-2 neutralizing antibody in serum, plasma.

What is the principle of the SARS-CoV-2 Neutralizing Antibody ELISA Kit?

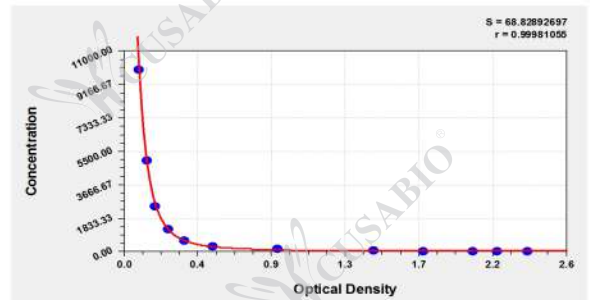
This assay is based on competitive method. The kit detects circulating neutralizing antibodies against SARS-CoV-2 that block the interaction between the receptor binding domain (RBD) of the viral spike glycoprotein with the ACE2 cell surface receptor.



What quality control data is available?

Typical Data: The standard curve is provided for demonstration only. It should be generated for each set of samples assayed.

ng/ml	OD1	OD2	Average	ng/ml	OD1	OD2	Average
10000	0.099	0.092	0.096	156	0.901	0.907	0.904
5000	0.145	0.136	0.141	78	1.509	1.412	1.461
2500	0.194	0.183	0.189	39	1.787	1.723	1.755
1250	0.274	0.263	0.269	19.5	2.121	1.958	2.040
625	0.344	0.371	0.358	9.75	2.233	2.138	2.186
312	0.519	0.528	0.524	0	2.394	2.328	2.361



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.

Which applications can I use the SARS-CoV-2 neutralizing antibody ELISA kit for?

1. Viral spike glycoprotein (RBD)/ACE2 receptor interaction studies;
2. Vaccine and Biologics development;
3. COVID-19 Epidemiology Studies.

Why should I choose the SARS-CoV-2 neutralizing antibody ELISA kit from CUSABIO?

1. Simple, convenient and fast;
2. Operation can be completed in any laboratory setting;
3. High specificity, small inter-assay variation.



CUSABIO TECHNOLOGY LLC

Postal Address: 7505 Fannin St. Ste 610-312, Houston, TX 77054, USA

Tel: 301-363-4651 (Available 9 a.m to 5 p.m. CST from Monday to Friday)

E-mail: elisa1@cusabio.com Web: www.cusabio.com

