

# Anti-SARS-CoV-2 ELISA (IgG) Kit

## About Coronavirus

The novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is currently causing the coronavirus disease 2019 (COVID-19) in December 2019. Because it is a new virus, scientists are learning more each day. Although most people who have COVID-19 have mild symptoms, COVID-19 can also cause severe illness and even death. Some groups, including older adults and people who have certain underlying medical conditions, are at increased risk of severe illness.

**Anti-SARS-CoV-2 ELISA (IgG) kit** has been designed for the detection and the quantitative and qualitative determination of specific IgG antibodies against SARS-CoV-2 in plasma.

Product name	Cross Reactivity	Sample Type	Pack Size	Cat No.
Anti-SARS-CoV-2 ELISA (IgG)	N/A	Plasma	96 Test/Kit	ATGCF001

\* A sample should be diluted 1:200, (for example 5µL sample + 995µL sample diluent) prior to assay.



## Product Features

- Quantitative and qualitative detection of COVID-19 (SARS-CoV-2) IgG Antibody
- Suitable for all automated ELISA systems
- SARS-CoV-2 specific antigens: spike glycoprotein (S)
- Time to result – approximately 3 hours
- Available in convenient pack size of 96 tests
- Ready-to-use reagents
- Microplate reader capable of measuring absorbance at 450 nm
- Store the unopened product at 2-8°C

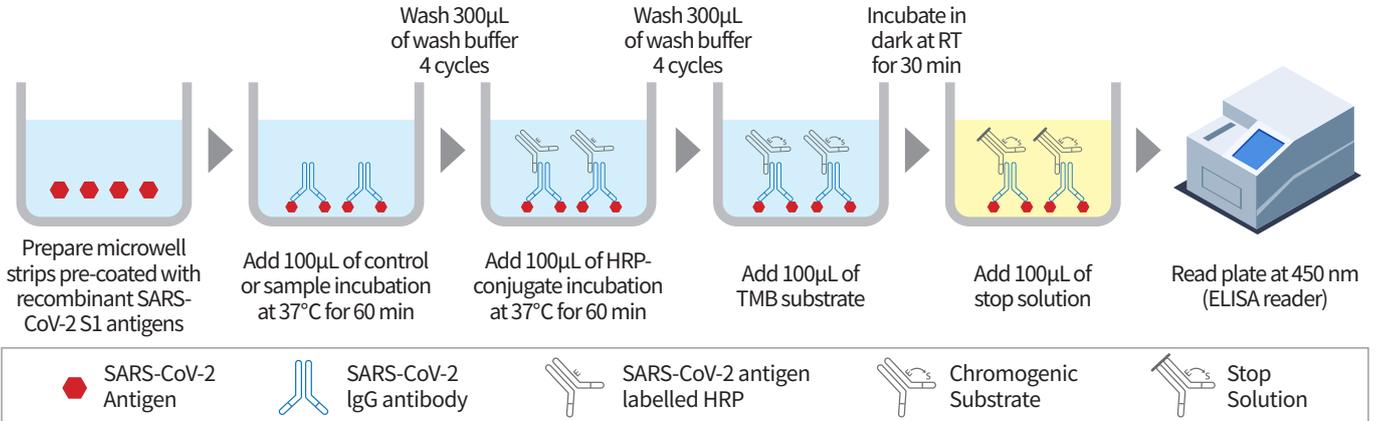
## Kit Components and storage

Component	Quantity	Storage	Expiration Date
Plate (Microwell plate coated with SARS-CoV-2 S1 recombinant protein)	12 strips of 8 wells (96 wells)	2-8°C	12 months
Standard (SARS-CoV-2 S1 antibody)	1ml X 1 bottle (8 ng)	2-8°C	12 months
Standard Diluent	10ml X 1 bottle	2-8°C	12 months
Sample Diluent	100ml X 1 bottle	2-8°C	12 months
Conjugate (100X)	0.15ml X 1 bottle	2-8°C	12 months
Conjugate Diluent	13ml X 1 bottle	2-8°C	12 months
Washing Solution (20X)	50ml X 1 bottle	2-8°C	12 months
TMB Substrate	12ml X 1 bottle	2-8°C	12 months
Stop Solution	12ml X 1 bottle	2-8°C	12 months
Calibrator (SARS-CoV-2 S1 monoclonal antibody)	1ml X 1 bottle	2-8°C	12 months

For Research Use Only. Not For Use In Diagnostic or Therapeutic Procedures.

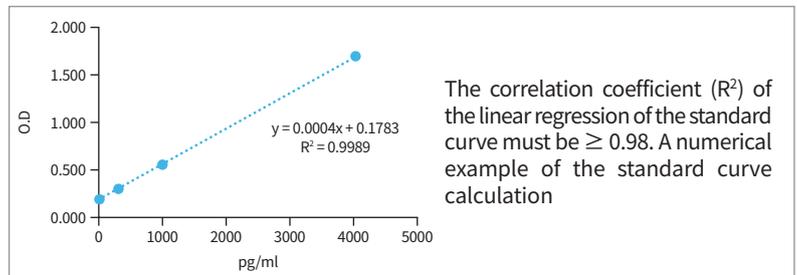
# Anti-SARS-CoV-2 ELISA (IgG) Kit

## Principle and Procedures



## Product Specification

- Sensitivity: 95.0%, Specificity: 93.3%
- Quantitative assay detection range: 0~4,000 pg/ml
- Qualitative Interpretation:
  - Ratio < 0.9 : Negative
  - 0.9 ≤ Ratio < 1.1 : Borderline
  - Ratio ≥ 1.1 : Positive
- Colour coded reagents for ease of identification



## Coronavirus related Products

### • Recombinant Proteins

Product name	Protein domain	Species	Expression system	Tagging	Purity	Endotoxin Test	Bioactivity	Cat No.
SARS-CoV Spike	14-1195aa	SARS-CoV	Baculovirus	His	>85%	P	P	ATGP3967
SARS-CoV Spike RBD	306-515aa	SARS-CoV	HEK293	His	>95%	P	P	ATGP3966
	306-515aa	SARS-CoV	Baculovirus	His	>95%	P	P	ATGP3960
SARS-CoV-2 (2019-nCoV) Spike S1	16-685aa	SARS-CoV-2	HEK293	His	>85%	P	P	ATGP3961
SARS-CoV-2 (2019-nCoV) Spike RBD	319-529aa	SARS-CoV-2	HEK293	His	>95%	P	P	ATGP3969
	319-541aa	SARS-CoV-2	HEK293	His	>95%	P	P	ATGP3968
	319-541aa	SARS-CoV-2	Baculovirus	His	>95%	P	P	ATGP3962
MERS-CoV Spike	18-1296aa	MERS-CoV	Baculovirus	His	>85%	P	NA	ATGP3979
MERS-CoV Spike S1	18-751aa	MERS-CoV	Baculovirus	His	>85%	P	NA	ATGP3980
MERS-CoV Spike S2	752-1296aa	MERS-CoV	Baculovirus	His	>85%	P	NA	ATGP3981
MERS-CoV Spike RBD	358-606aa	MERS-CoV	Baculovirus	His	>90%	P	NA	ATGP3982

### • Monoclonal Antibodies

Product name	Clone No.	Applications	Isotype	Host	Cat No.
MERS-CoV Spike	AT40G7	ELISA, Neutralization	IgG <sub>1,k</sub>	M	ATGA0594
	AT23D3	ELISA, Neutralization	IgG <sub>1,λ</sub>	M	ATGA0596
	AT25E4	ELISA, Neutralization	IgG <sub>1,k</sub>	M	ATGA0597
	AT6E6	ELISA	IgG <sub>1,k</sub>	M	ATGA0598
	AT43E4	ELISA, Neutralization	IgG <sub>2b,k</sub>	M	ATGA0599
	AT14F8	ELISA, Neutralization	IgG <sub>1,k</sub>	M	ATGA0600
MERS-CoV Spike S2	AT14H8	ELISA, WB, Neutralization	IgG <sub>2b,k</sub>	M	ATGA0593
MERS-CoV Spike RBD	AT2F7	ELISA, WB	IgG <sub>2b,k</sub>	M	ATGA0595

M : Mouse P : Pass NA : Not Analyzed