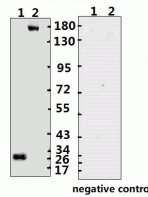




# SARS-CoV-2 (COVID-19) Spike ECD Monoclonal Antibody (B004Y)

Cat. No.: 10-563



**Figure 1 Western Blot Validation with Recombinant Protein**

Loading: 1 µg of recombinant protein per lane. Lane 1: 10-008 and Lane 2: 10-011. Antibodies: ARS-CoV-2 (COVID-19, 2019-nCoV) Spike-ECD Monoclonal, 10-563, 1:500. Secondary: Goa

ELISA experiment			
	1	2	
A	0.082	2.477	1:10000
B	0.132	2.109	1:20000
C	0.127	2.039	1:40000
D	0.134	1.72	1:80000
E	0.109	1.317	1:160000
F	0.12	0.863	1:320000
G	0.123	0.538	1:640000
H	0.082	0.154	Blank control

**Figure 2 ELISA Test**

Coating original concentration: 2 µg/mL, 100 µL/well samples are column 1: SARS-CoV-2 (COVID-19) Spike-RBD Recombinant Protein, 10-008, and column 2: SARS-CoV-2 (COVID-19) Spike-ECD Recombinant Protein, 10-011.

Antibodies: SARS-CoV-2 (COVID-19) Spike-ECD Monoclonal Antibody, 10-563.

Secondary: Goat anti-human IgG HRP conjugate at 1:10000 dilution.

Develop: 15min, 100 µL/well.

Stop: Stop buffer 50 µL/well.

10-563 doesn't react with 10-008.

## Ψ Specifications

<b>HOST SPECIES:</b>	Human
<b>SPECIES REACTIVITY:</b>	Virus
<b>IMMUNOGEN:</b>	S-ECD recombinant protein
<b>TESTED APPLICATIONS:</b>	ELISA, Neut, WB
<b>APPLICATIONS:</b>	ELISA: ECD-1:160000; WB: 1:2000~3000

<b>PURIFICATION:</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>CLONALITY:</b>	Monoclonal
<b>CONJUGATE:</b>	Unconjugated
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	PBS with 0.02% sodium azide, 10% glycerol, pH7.2
<b>CONCENTRATION:</b>	1 mg/mL
<b>STORAGE CONDITIONS:</b>	Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

## Additional Info

<b>OFFICIAL SYMBOL:</b>	S
<b>ALTERNATE NAMES:</b>	SARS-CoV-2 (COVID-19, 2019-nCoV) Spike Antibody: Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), Surface Glycoprotein, Spike protein
<b>ACCESSION NO.:</b>	QHD43416.1
<b>GENE ID:</b>	43740568
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.

## Background and References

<b>BACKGROUND:</b>	SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as 2019-nCoV (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. SARS CoV-2 Spike Protein derived from 2019-nCoV is composed of S1 domain and S2 domain. The S1 contains a receptor-binding domain (RBD) that can specifically bind to angiotensin-converting enzyme 2 (ACE2), the receptor on target cells.
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