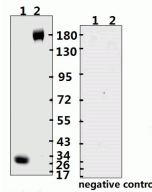




# SARS-CoV-2 (COVID-19) Spike RBD Monoclonal Antibody (B003Y)

Cat. No.: 10-559



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

Loading: 1µg of recombinant protein per lane. Lane 1: 10-008 and Lane 2: 10-011. Antibodies: SARS-CoV-2 (COVID-19) Spike-ECD/RBD Monoclonal, 10-559, 1:4000. Secondary: Goat ant

**ELISA experiment**

	1	2	
A	2.005	2.58	1:1000
B	1.945	2.453	1:10000
C	1.651	2.292	1:100000
D	1.325	1.858	1:40000
E	0.976	1.385	1:80000
F	0.829	0.951	1:160000
G	0.34	0.541	1:320000
H	0.167	0.113	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-ECD Recombinant Protein, 10-011, and column 2: SARS-CoV-2 (COVID-19) Spike-RBD Recombinant Protein, 10-008.  
Antibodies: SARS-CoV-2 (COVID-19) Spike-ECD/RBD Monoclonal Antibody, 10-559.  
Secondary: Goat anti-human IgG HRP conjugate at 1:10000 dilution.  
Develop: 15min, 100 µL/well.  
Stop: Stop buffer 50 µL/well.

## Ψ Specifications

<b>HOST SPECIES:</b>	Human
<b>SPECIES REACTIVITY:</b>	Virus
<b>IMMUNOGEN:</b>	S-RBD recombinant protein
<b>TESTED APPLICATIONS:</b>	ELISA, Neut, WB
<b>APPLICATIONS:</b>	ELISA: ECD-1:320000, RBD-1:80000 WB: 1:1000~2000

<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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