Data Sheet (Cat.No.TMAB-12538)

Anti-SARS-CoV-2 (2019-nCoV) Spike S1 Antibody (5Q515)

Product Details

Ig Type:	IgG1
Reactivity:	SARS-CoV-2
Molecular Weight:	Theoretical: 140 kDa. Actual: 140 kDa.
Clone:	5Q515
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Lane 1: SARS-CoV-2 S1 Protein (E484Q,L452R, D614G,P681R) at 500 ng Lane 2: SARS-CoV-2 S1 Protein (D80A, D215G, Del241/243,K417N,E48 4 k,N501Y, D614G) at 500 ng Lane 3: SARS-CoV-2 S1 Protein (L18F,T20 n,P26S, D138Y,R190S,K417T,E48 4 k,N501Y, D614G, H655Y) at 500 ng Primary: Mouse Anti-SARS-CoV-2 Spike S1 Protein Antibody at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 78 kD Observed band size: kD 2. Sample: Lane 1: SARS-CoV-2 S1 Protein (His-Avi,HEK293) at 500 ng Primary: Mouse Anti-SARS-CoV-2 Spike S1 Protein Antibody at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 78 kD Observed band size: kD 3. Sample: Lane 1: SARS-CoV-2 Spike RBD Protein (WT) at 500 ng Lane 2: SARS-CoV-2 Spike S1 Protein (E484Q, L452R, D614G,P681R) at 500 ng Lane 3: SARS-CoV-2 Spike S1 Protein (D80A, D215G, del241/243, K417N, E48 4 k, N501Y, D614G) at 500 ng Lane 4: SARS-CoV-2 Spike S1 Protein (L18F,T20 n,P26S, D138Y,R190S,K417T,E48 4 k,N501Y, D614G,H655Y) at 500 ng Primary: Anti-SARS-CoV-2 Spike S1 Protein at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 27 kDa /77.2 kDa Observed band size: 35 kDa/114 kDa
Application:	WB

Recommended WB: 1:500-2000

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: SARS-CoV-2 Spike S1 Protein

Research Background

The SARS-CoV-2 spike (S) protein is the target of vaccine design efforts to end the COVID-19 pandemic. Despite a low mutation rate, isolates with the D614G substitution in the S protein appeared early during the pandemic, and are now the dominant form worldwide. Here, we analyze the D614G mutation in the context of a soluble S ectodomain construct.

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