bsm-41516M **[Primary Antibody]**

SARS-CoV-2 (2019-nCoV) Spike RBD Mouse mAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Mouse

Clonality: Monoclonal **CloneNo.:** 2B1

Target: SARS-CoV-2 (2019-nCoV) Spike RBD

Immunogen: Recombinant SARS-CoV-2 Spike S1 Protein: 14-685/1213.

Purification: affinity purified by Protein A

Concentration: Lot Dependent

Storage: Size : 100ug
0.01M PBS (pH7.4).
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

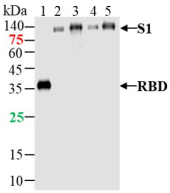
Background: The SARS-CoV-2 spike (S) protein is the target of vaccine design efforts to end the COVID-19 pandemic. Despite a low mutation rate, isolates with the D614G substitution in the S protein appeared early during the pandemic, and are now the dominant form worldwide. Here, we analyze the D614G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

Applications: **WB** (1:500-2000)

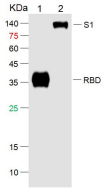
Reactivity: SARS-CoV-2

Predicted MW.: 140 kDa

VALIDATION IMAGES



Sample: Lane 1: SARS-CoV-2 Spike RBD Protein(WT) at 500ng Lane 2: SARS-CoV-2 Spike S1 Protein(E484Q, L452R, D614G,P681R) at 500ng Lane 3: SARS-CoV-2 Spike S1 Protein (D80A, D215G, del241/243, K417N, E484K, N501Y, D614G) at 500ng Lane 4: SARS-CoV-2 Spike S1 Protein (L18F, T20N, P26S, D138Y, R190S,K417T,E484K,N501Y,D614G,H655Y) at 500ng Lane 5: SARS-CoV-2 Spike S1 Protein (WT) at 500ng 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: 27kDa /77.2 kDa Observed band size: 35kDa/114 kDa



Sample: Lane 1: SARS-CoV-2 Spike RBD Protein (His-Avi,HEK293) at 500ng Lane 2: SARS-CoV-2 S1 Protein (His-Avi,HEK293) at 500ng Primary: Mouse Anti-SARS-CoV-2 Spike RBD Protein Antibody at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 27/78kD Observed band size: kD

SELECTED CITATIONS

- **[IF=38.079]** Luo Yufeng. et al. High-throughput screening of spike variants uncovers the key residues that alter the affinity and antigenicity of SARS-CoV-2. CELL DISCOV. 2023 Apr;9(1):1-15 WB ;Human. 37041132