9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

21-1018: SARS-CoV-2 (2019-nCoV) Spike S1, Southern California mutant (S13I / W152C / L452R) His Tag Protein

Application : ELISA,WB

Description

Source: SARS-CoV-2 (2019-nCoV) Spike S1, Southern California Mutant (S13I / W152C / L452R) His Protein was expressed in CHO-K1. The spike protein (S1) of coronavirus (CoV2) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Product Info

Amount :	50 ?g / 100 µg
Purification :	>95% by SDS-PAGE.
Content :	PBS and 10% Glycerol.
Storage condition :	SARS-CoV-2 Spike S1 (S13I / W152C / L452R) His Protein is shipped on ice packs. Upon arrival, Store at -20°C. Do not freeze-thaw multiple times.
Amino Acid :	The target protein is expressed with sequence (AA 14-683) of SARS-CoV-2/COVID-19 Spike S1 sequence with mutation at 614aa fused with a 10Ã—His tag in C-Terminal.

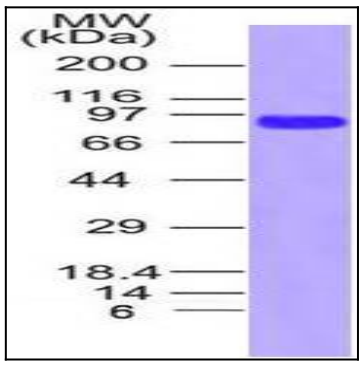


Figure-1:Recombinant SARS-CoV-2 Spike S1 S13I / W152C / L452R mutant protein was run on a 4-20% SDS-PAGE gel followed by Coomassie blue staining.

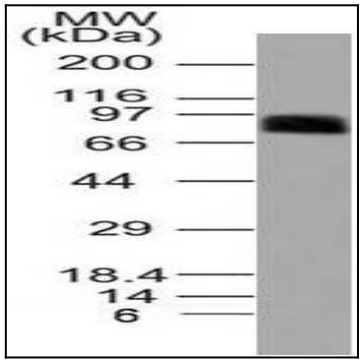


Figure-2: Western blot analysis of SARS-CoV-2 Spike S1 S13I / W152C / L452R mutant protein. Anti-Spike S1 antibody was used in western Blot analysis.

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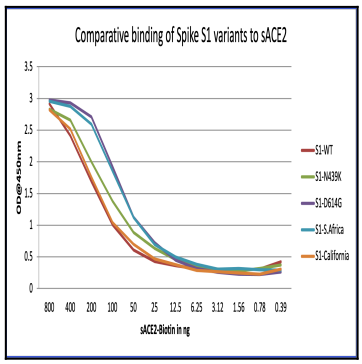


Figure-3: Comparative binding of Spike S1 variants to sACE2: Wells of a 96-well microtiter plate were coated with 100 ng in duplicates each of S1-WT (Cat# 21-1008), S1-N439K (Cat# 21-1012), S1-D614G (Cat# 21-1009), S1-South Africa (Cat# 21-1017), and S1-Southern California (Cat# 21-1018). Binding to sACE2 was determined by adding different concentrations of biotinylated-sACE2 (Cat# 21-1006).

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