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21-1008: SARS CoV2 Spike S1 C-Term His Tag Protein

Application : Functional Assay,ELISA

Description

Source: **Covid 19 Spike S1-His 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 :	50µg / 100 µg
Purification :	greater than 95% by SDS-PAGE.
Content :	PBS and 10% Glycerol.
Storage condition :	SARS-CoV-2 Spike S1-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 fused with a 10xHis tag in C-Terminal.

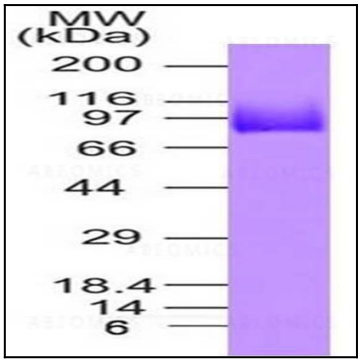


Figure-1: SDS-PAGE analysis of purified SARS-CoV-2 Spike S1-His recombinant protein. 2.0 µg protein was run on a 4-20% SDS-PAGE gel followed by Coomassie blue staining.

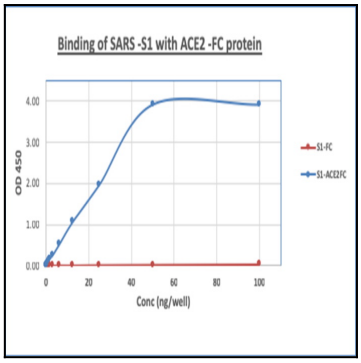


Figure 2: Binding assay of recombinant SARS CoV-2 Spike S1 C-Term His Tag Protein (Cat. No. 21-1008) with recombinant Human ACE2 Fc Protein (Cat No. 21-1007). An ELISA plate was coated with 1µg/ml of recombinant SARS CoV-2 Spike S1 C-Term His Tag Protein, and the plate was incubated overnight at 4oC. Different concentrations (100 ng/well to 0 ng/well) of recombinant Human ACE2 Fc Protein was added to the wells. HRP conjugated goat anti-human Fc was used as secondary antibody.

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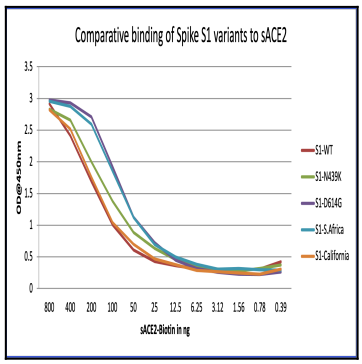


Figure 3: Comparative binding of Spike S1 variants to sACE2: Wells of a 96-well microtiter plate were coated with 100 ng in duplicates each of S1-WT (Cat# 21-1008), S1-N439K (Cat# 21-1012), S1-D614G (Cat# 21-1009), S1-South Africa (Cat# 21-1017), and S1-Southern California (Cat# 21-1018). Binding to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

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