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JOT0007-1: Anti-SARS-CoV-2 spike RBD VHH antibody

Clonality :	Monoclonal
Application :	ELISA
Alternative Name :	Anti-coronavirus s1 Antibody, Anti-coronavirus spike Antibody; Anti-cov spike Antibody; Anti-ncov RBD Antibody; Anti-ncov s1 Antibody; Anti-ncov spike Antibody; Anti-novel coronavirus RBD Antibody; Anti-novel coronavirus s1 Antibody; Anti-novel coronavirus spike Antibody; Anti-RBD Antibody; Anti-S1 Antibody, Anti-Spike RBD Antibody
Isotype :	Camelid VHH

Description

Alpaca derived anti-SARS-CoV-2 Spike RBD VHH single domain antibody (molecular weight: 14.3 kDa) with a 6*His tag at its C-terminal, expressed in E. coli under conditions free from animal derived components.
Analyte description: The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. It's been reported that SARS-CoV-2 (COVID-19 coronavirus, 2019-nCoV) can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion.

This is a product from Jotbody, Hong Kong. This antibody is made available worldwide by ABEOMICS Inc.

Product Info

Amount :	100 µg / 50 µg
Purification :	Affinity chromatography purified via Ni-charged resin. Purity: > 95% as determined by SDS-PAGE
Content :	1mg/mL Buffer:25 mM TAPS pH8.5, 500 mM NaCl, 5 mM EDTA, 0.1 % Proclin 300
Storage condition :	4°C; Do not freeze.

Application Note

Positive controls : Positive ELISA detected in: Recombinant SARS-CoV-2 (2019-nCoV) Spike RBD Protein Recommended dilutions : ELISA 1:3000-1:10000

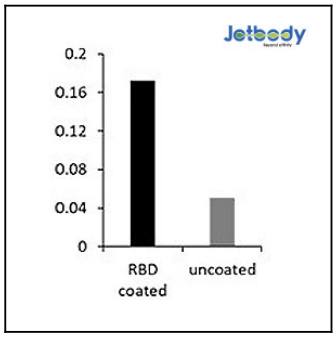


Figure 1: Immobilized recombinant SARS-CoV-2 (2019-nCoV) Spike RBD protein at 1 ?g/mL (100 ?L/well) can bind anti-SARS-CoV-2 Spike RBD VHH antibody (JOT0007-1).

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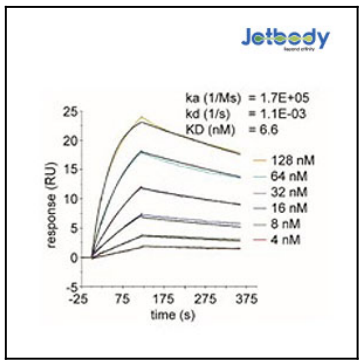


Figure 2: Captured recombinant SARS-CoV-2 (2019-nCoV) Spike RBD protein on CM5 Chip can bind anti-SARS- CoV-2 Spike RBD VHH antibody (JOT0007-1) with an affinity constant of 6.6 nM as determined in SPR assay (Biacore T200).

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