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Zuschläge

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- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-Spike (SARS-CoV-2) Rabbit Polyclonal Antibody

CATALOG NUMBER: SCV2-SA-200, 100 µg, 1 mg

Introduction

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is the virus that causes COVID-19 (coronavirus disease 2019), the respiratory illness responsible for the COVID-19 pandemic. Many SARS-CoV-2 variants have been identified throughout the world since its outbreak in late 2019; some are believed or have been believed to be of particular importance due to their potential for increased transmissibility, increased virulence, and reduced effectiveness of vaccines against them.

The genome of SARS-CoV-2 has 89% nucleotide identity with bat SARS-like-CoVZXC21 and 82% with that of human SARS-CoV. The phylogenetic trees of their orf1a/b, Spike, Envelope, Membrane and Nucleoprotein also clustered closely with those of the bat, civet and human SARS coronaviruses. However, the external subdomain of Spike's receptor binding domain (RBD) of SARS-CoV-2 shares only 40% amino acid identity with other SARS-related coronaviruses.

Applications

Western blot (1:500-1:2000), ELISA (1:40,000), Neutralization Assay, and other applications

Description

Rabbit polyclonal anti-spike (SARS-CoV-2) antibody

Immunogen

Full length spike protein of SARS-CoV-2 South Africa variant (GISAID No. EPI_ISL_736980)

Specificity

Reacts with spike protein of all SARS-CoV-2 variants tested. Cross-reaction to spike proteins from other coronavirus not tested.

Purification

Protein G immunoaffinity chromatography

Isotype

Rabbit IgG

Storage

Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous.

Concentration

2 µg/µl in PBS

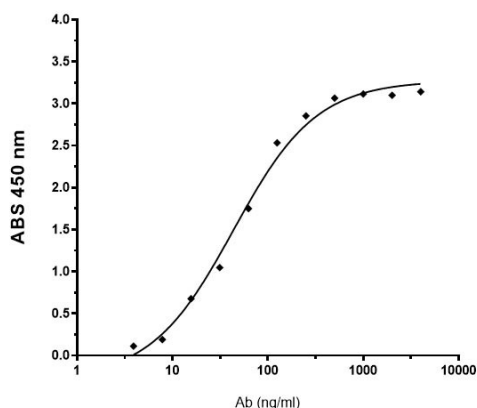


Figure 1. Titration curves of anti-spike (SARS-CoV-2/South Africa variant) rabbit polyclonal antibody with EC50 of 43.55 ng/ml.

96-well coming ELISA plate was coated with SARS-CoV-2 spike RBD (Cat# [SCV2-RBD-SA50p](#)) at a concentration of 2 µg/ml.

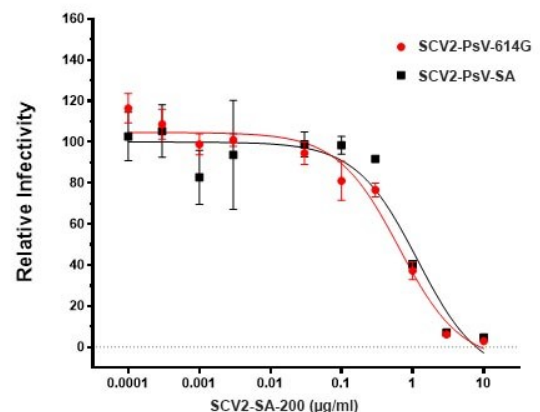


Figure 2. Pseudoviral particle (PP) infection assay challenged by anti-spike antibody (SCV2-SA-200). HEK293-ACE2 cells infected with SARS-CoV-2 pseudoviral particles under various amounts of antibodies, with IC50 of 0.64 µg/ml ([SCV2-PsV-614G](#)) and 1.17 µg/ml ([SCV2-PsV-SA](#))

