

## Spike S1 Protein (SARS-CoV-2 South Africa Variant B.1.351)

CATALOG NUMBER: SCV2-S1-SAp, 50 µg

### Introduction

The novel coronavirus (SARS-CoV-2), previously called 2019-nCoV, is a newly identified coronavirus causing the ongoing outbreak of atypical pneumonia in Wuhan China from late 2019.

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 Nucleocapsid protein 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 standard, antibody ELISA, antigen, etc.

### Description

Recombinant SARS-CoV-2 S1 protein of the South Africa variant B.1.351 purified from 293 cells

### Viral Protein

SARS-CoV-2 S1 protein (amino acid 16-682) of the South Africa variant B.1.351 (GISAID Accession No. EPI\_ISL\_736980) with a C-terminal poly his-tag

### Storage

Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous, no MSDS required.

### Concentration

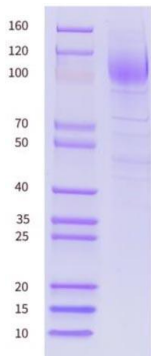
50 µg in PBS, pH7.4

### Endotoxin Level

<0.01 EU per 1 µg of the protein by LAL test

### Purity

≥ 95% (by SDS PAGE)



**SDS-PAGE:** purified spike SARS-CoV-2 S1 protein of the South Africa variant

### SARS-CoV-2 S1 Protein of the South Africa variant (aa 16-682) SEQ:

VNFTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAIHVSGTNGTKRFANPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSTKTS  
 QSLLI VNNATNVV I K V C E F Q F C N D P F L G V Y Y H K N N K S W M E S E F R V Y S S A N N C T F E Y V S Q P F L M D L E G K Q G N F K N L R E F V F K N I D G Y F K I Y S K H T P I N L V  
 R G L P Q G F S A L E P L V D L P I G I N I T R F Q T L H R S Y L T P G D S S G W T A G A A Y Y V G Y L Q P R T F L L K Y N E N G T I T D A V D C A L D P L S E T K C T L K S F T V E K G I Y Q T  
 S N F R V Q P T E S I V R F P N I T N L C P F G E V F N A T R F A S V Y A W N R K R I S N C V A D Y S V L Y N S A S F S T F K C Y G V S P T K L N D L C F T N V Y A D S F V I R G D E V R Q I A P G Q  
 T G N I A D Y N Y K L P D D F T G C V I A W N S N N L D S K V G G N Y N Y L R L F R K S N L K P F E R D I S T E I Y Q A G S T P C N G V K G F N C Y F P L Q S Y G F Q P T Y G V G Y Q P Y R V V L  
 S F E L L H A P A T V C G P K K S T N L V K N K C V N F N F N G L T G T G V L T E S N K K F L P F Q Q F G R D I A D T T D A V R D P Q T L E I L D I T P C S F G G V S V I T P G T N T S N Q V A V L Y  
 Q G V N C T E V P V A I H A D Q L T P T W R V Y S T G S N V F Q T R A G C L I G A E H V N N S Y E C D I P I G A G I C A S Y Q T Q T N S P R R A R H H H H H H H H