

## Product datasheet

# Recombinant human coronavirus SARS-CoV-2 Spike Glycoprotein S1 (Active) ab273068

[9 References](#) [4 Images](#)

### Description

<b>Product name</b>	Recombinant human coronavirus SARS-CoV-2 Spike Glycoprotein S1 (Active)
<b>Biological activity</b>	Flow cytometry assay showing ab273068 can bind to ACE2 overexpressing cells. ACE2 overexpressing cells were stained with ab273068, followed by an anti-spike protein antibody, and a fluorescence-conjugated secondary antibody.
<b>Purity</b>	> 90 % SDS-PAGE. Purity is lot specific. Please contact our technical Support team for details.
<b>Expression system</b>	CHO cells
<b>Accession</b>	<b><u>MN908947</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human coronavirus

### Sequence

```
VNLTTRTQLP PAYTNSFTRG VYYPDKVFRS
SVLHSTQDLF LPFFSNVTWF HAIHVSQTNG
TKRFDNPVLP FNDGVYFAST EKSNIIRGWI FGTTLDSKTQ
SLLMNNATN VVIKVCEFQF CNDPFLGVYY
HKNNKSWMES EFRVYSSANN CTFEYWSQPF
LMDLEGKQGN FKNLREFVFK NIDGYFKIYS KHTPINLVRD
LPQGFSALEP LVDLPIGINI TRFQTLALH RSYLTPGDSS
SGWTAGAAAY YVGYLQPRTF LLKYNENGTI
TDAVDCALDP LSETKCTLKS FTVEKGIYQT
SNFRVQPTES MRFPNITNL CPFGEVFNAT
RFASVYAWNR KRISNCVADY SVLYNSASF
TFKCYGVSPT KLNDLCFTNV YADSFVIRGD
EVRQIAPGQT GKIADYNYKL PDDFTGCVIA
WNSNNLDSKV GGNYNLYRL FRKSNLKPFE RDISTEIQ
GSTPCNGVEG FNCYFPLQSY GFQPTNGVGY
QPYRVVLSF ELLHAPATVC GPKKSTNLVK
NKCVMNFNFG LTGTGVLTES NKKFLPFQQF
GRDIADTTDA VRDPQTLEIL DITPCSFQGGV SVITPGTNTS
NQVAVLYQDV NCTEVPVAIH ADQLTPTWRV
YSTGNSNVFQT RAGCLIGAEH VNNSYECDIP IGAGICASYQ
```

<b>Predicted molecular weight</b>	76 kDa
<b>Actual molecular weight</b>	125 kDa
<b>Amino acids</b>	16 to 685
<b>Tags</b>	His tag C-Terminus

## Specifications

Our **Abpromise guarantee** covers the use of **ab273068** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

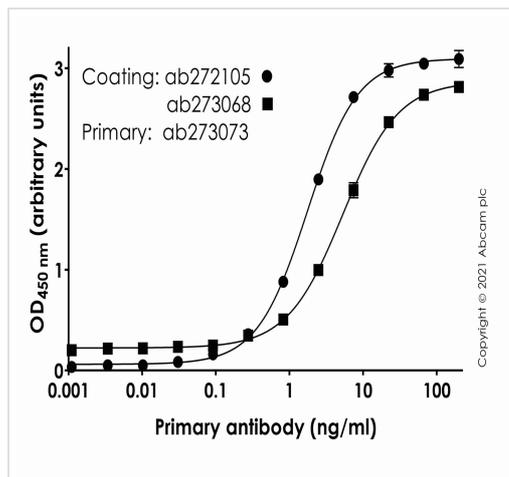
<b>Applications</b>	Indirect ELISA
	SDS-PAGE
	Functional Studies

<b>Form</b>	Liquid
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## Preparation and Storage

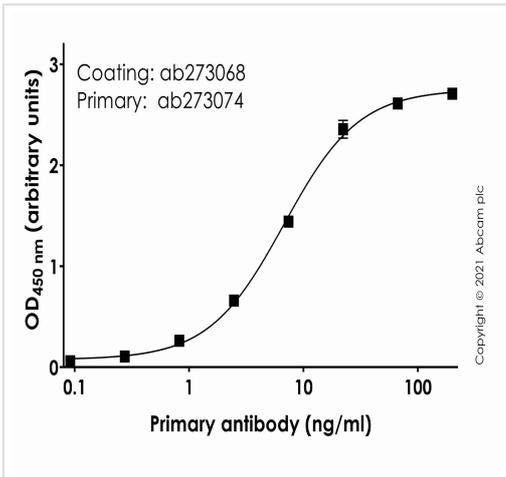
<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.
	pH: 7.50
	Preservative: 1.02% Imidazole
	Constituents: 0.82% Sodium phosphate, 1.74% Sodium chloride
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

## Images



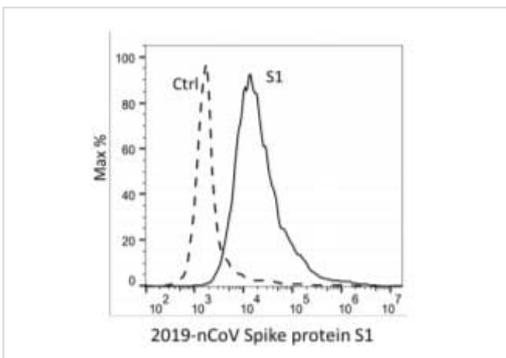
Indirect ELISA showing primary antibody **ab273073** (CR3022, human chimeric) binding to the antigens **ab272105** (recombinant human coronavirus SARS-CoV-2 Spike Glycoprotein S1 (sheep Fc fusion)) and **ab273068** (recombinant human coronavirus SARS-CoV-2 Spike Glycoprotein S1 (Active)). Plates were coated with 100ng/well **ab272105** or **ab273068** and binding of **ab273073** assessed in serial dilution from 200ng/ml primary antibody in duplicate. Binding was detected using **ab98624**, an anti-human Fc secondary conjugated to HRP. Data are represented as the mean and error bars represent standard deviation.

Indirect ELISA - Recombinant human coronavirus SARS-CoV-2 Spike Glycoprotein S1 (Active) (ab273068)



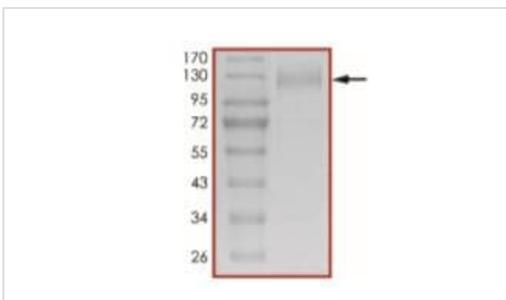
Indirect ELISA - Recombinant human coronavirus SARS-CoV-2 Spike Glycoprotein S1 (Active) (ab273068)

Indirect ELISA showing primary antibody **ab273074** (CR3022, rabbit chimeric) binding to the antigen ab273068 (recombinant human coronavirus SARS-CoV-2 Spike Glycoprotein S1 (Active)). Plates were coated with 100ng/well **ab272105** or ab273068 and binding of **ab273073** assessed in serial dilution from 200ng/ml primary antibody in duplicate. Binding was detected using **ab97080**, an anti-rabbit H&L secondary conjugated to HRP. Data are represented as the mean and error bars represent standard deviation.



Functional Studies - Recombinant SARS Coronavirus Spike Glycoprotein Mosaic (S1) (Active) (ab273068)

Flow cytometry assay showing ab273068 can bind to ACE2 overexpressing cells. ACE2 overexpressing cells were stained with ab273068, followed by an anti-spike protein antibody, and a fluorescence-conjugated secondary antibody.



SDS-PAGE - Recombinant SARS Coronavirus Spike Glycoprotein Mosaic (S1) (Active) (ab273068)

SDS-PAGE analysis of ab273068.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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