

# SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric

Cat. No.: A02038

## Overview

<b>Specificity</b>	The product is specific for SARS-CoV-2 Spike Protein S1 subunit and its RBD domain.
<b>Host Species</b>	Human
<b>Immunogen</b>	Recombinant SARS-CoV-2 RBD Protein
<b>Conjugate</b>	Unconjugated

## Applications

Working concentrations for specific applications should be determined by the investigators. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

<b>Application</b>	<b>Recommended Usage</b>
ELISA	0.1-10 µg/ml

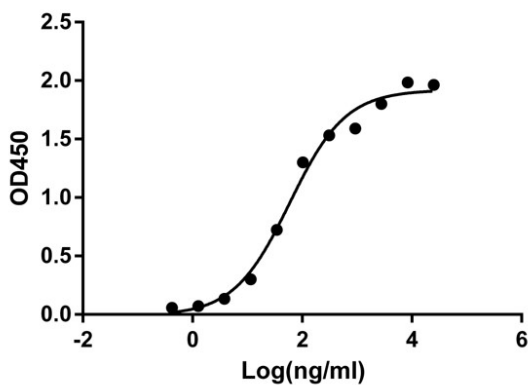
## Properties

<b>Form</b>	Liquid
<b>Storage Buffer</b>	Supplied in PBS, pH 7.4, containing 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instructions</b>	Store at -20°C. This product is stable for 1 year upon receipt, when handled and stored as instructed. Avoid repeated freezing and thawing cycles.
<b>Purification</b>	Protein A affinity column
<b>Isotype</b>	Recombinant human IgG1
<b>Clonality</b>	Monoclonal

Clone ID	HC2001
Note	GenScript can customize this product per customer's request including product size, buffer components, etc.

## Examples

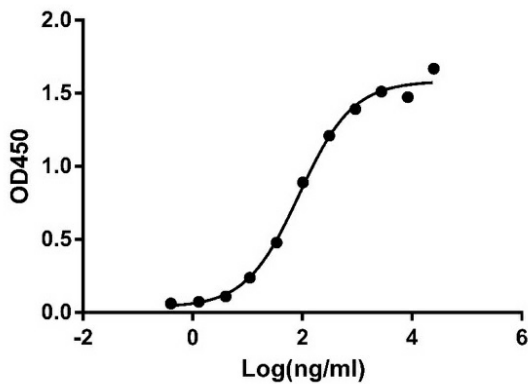
**A02038 (HC2001) binds with SARS-CoV-2 NP&RBD**



ELISA binding of SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric (GenScript, A02038) with recombinant SARS-CoV-2 NP&RBD (GenScript, [Z03497](#)).

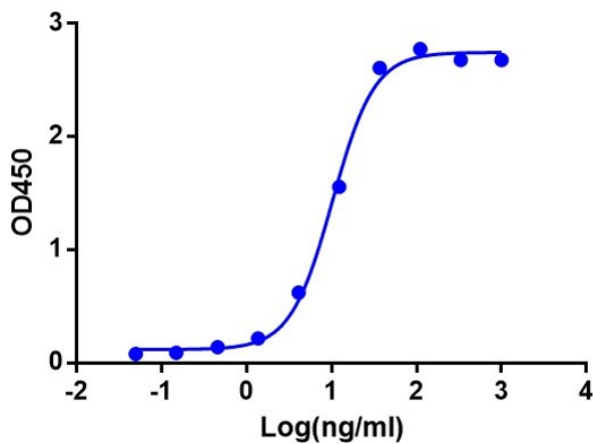
Coating antigen: recombinant SARS-CoV-2 NP&RBD, 0.5 µg/ml. SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric (GenScript, A02038) dilution start from 25 µg/ml. EC50= 0.059 µg/ml.

**A02038 (HC2001) binds with SARS-CoV-2 Spike Protein S1 RBD**



ELISA binding of SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric (GenScript, A02038) with recombinant SARS-CoV-2 Spike Protein S1 RBD (GenScript, [Z03483](#)).

Coating antigen: recombinant SARS-CoV-2 Spike Protein S1 RBD, 0.5 µg/ml. SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric (GenScript, A02038) dilution start from 25 µg/ml. EC50= 0.088 µg/ml.



ELISA binding of SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric (GenScript, A02038) with SARS-CoV-2 Spike protein (RBD, His Tag, CHO-expressed) (GenScript, Z03514) . Coating antigen: SARS-CoV-2 Spike protein (RBD, His Tag, CHO-expressed) (GenScript, Z03514) , 1 µg/ml. SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric (GenScript, A02038) dilution start from 1 µg/ml. EC<sub>50</sub>= 10.3 ng/ml.

## Background

**Target Background :** SARS-CoV-2 (Severe acute respiratory syndrome coronavirus 2), also known as 2019-nCoV, is a positive-sense single-stranded RNA virus. It caused coronavirus disease 2019 (COVID-19). SARS-CoV-2 contains glycosylated spike (S) protein, which is composed of S1 subunit and S2 subunit. The S1 contains a receptor-binding domain (RBD) that can bind to ACE2 receptor on target cells. SARS-CoV-2 Spike S1 Antibody (HC2001), Human Chimeric is produced from cell culture in vitro under conditions free from animal-derived components.

**Synonyms :** 2019-nCoV Spike S1 Antibody (HC2001), SARS-CoV-2 S1 RBD Antibody

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**