

# SARS-CoV-2 Spike (452R) Antibody (L20), mAb, Mouse

Cat. No.: A02154

## Overview

<b>Specificity</b>	SARS-CoV-2 Spike (452R) Antibody (L20), mAb, Mouse is specific for 452R site of B.1.617 SARS-CoV-2 RBD. This product can recognize RBD single mutant (L452R) and double mutant (L452R, E484Q), but can not recognize the wild type RBD and RBD single mutant (E484Q)
<b>Host Species</b>	Mouse
<b>Immunogen</b>	SARS-CoV-2 Spike RBD protein (L452R, E484Q)
<b>Species Reactivity</b>	SARS-CoV-2 B.1.617 variant, SARS-CoV-2 Delta/B.1.617.2 variant
<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.

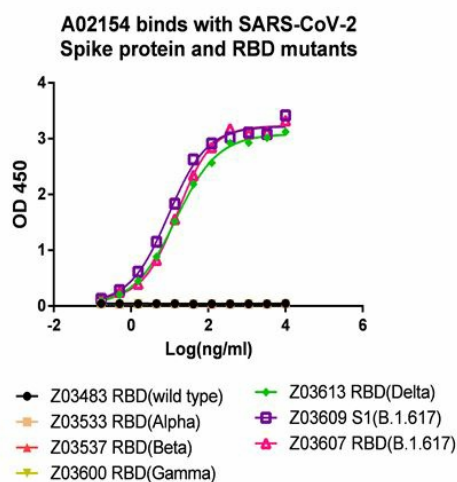
<b>Application</b>	<b>Recommended Usage</b>
ELISA	0.01-1 µg/ml

## Properties

<b>Form</b>	Liquid
<b>Storage Buffer</b>	PBS, pH 7.2, 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>	Affinity chromatography
<b>Isotype</b>	Mouse IgG2a,k
<b>Clonality</b>	Monoclonal
<b>Clone ID</b>	L20
<b>Note</b>	GenScript can customize this product per customer's request including product size, buffer components, etc.

## Examples



ELISA binding of SARS-CoV-2 Spike (452R) Antibody (L20), mAb, Mouse (GenScript, A02154) with SARS-CoV-2 spike protein and RBD mutants.

Coating antigen:

S-RBD Alpha, N501Y (GenScript, Z03533) 1 µg/ml

S-RBD Beta, E484K+K417N+N501Y (GenScript, Z03537) 1 µg/ml

S-RBD Gamma, E484K+K417T+N501Y (GenScript, Z03600) 1 µg/ml

S-RBD Delta, L452R+T478K (GenScript, Z03613) 1 µg/ml

S1 Protein B.1.617, E484Q+L452R (GenScript, Z03609) 1 µg/ml

S-RBD B.1.617, E484Q+L452R (GenScript, Z03607) 1 µg/ml

SARS-CoV-2 Spike (452R) Antibody (L20), mAb, Mouse (GenScript, A02154) dilution start from 10 µg/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. Lineage B.1.617 has the double mutations E484Q and L452R in the spike proteins.

**Synonyms :** 2019-nCoV RBD (452R) Antibody, SARS-CoV-2 RBD 452R specific antibody, SARS-CoV-2 lineage B.1.617 specific antibody.

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