



# Human Anti-SARS-CoV-2 RBD Monoclonal antibody, clone 31Z51 (CABT-CS088)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Specificity	SARS-CoV-2 RBD
Target	SARS-CoV-2 Spike RBD
Immunogen	Recombinant SARS-CoV-2 RBD
Isotype	IgA
Source/Host	Humanized
Species Reactivity	SARS-CoV-2
Clone	31Z51
Purification	>95% by SDS Page
Conjugate	unconjugated
Applications	ELISA, LFIA
Format	Liquid
Size	1 mg
Buffer	10 mM PBS, PH 7.2-7.4
Preservative	None
Storage	Store at -20°C or below.

## BACKGROUND

**Introduction**

The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2; DPP4, dipeptidyl peptidase-4; APN, aminopeptidase N; CEACAM, carcinoembryonic antigen-related cell adhesion molecule 1; Sia, sialic acid; O-ac Sia, O-acetylated sialic acid. The spike is essential for both host specificity and viral infectivity. The term 'peplomer' is typically used to refer to a grouping of heterologous proteins on the virus surface that function together. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process.

**Keywords**

SARS-CoV-2; SARS-CoV-2 spike RBD; SARS-CoV-2 S1 RBD; SARS-CoV-2 RBD; SARS-CoV-2 S1; SARS-CoV-2 spike