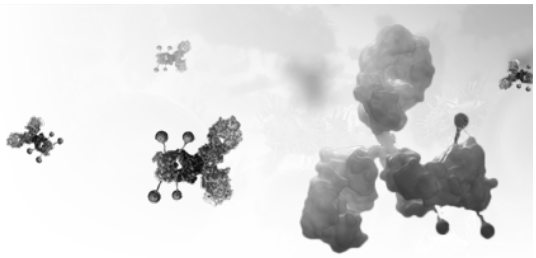

# Human Anti-SARS-CoV-2 RBD Monoclonal antibody, clone CR3022 [Biotin] (CABT-CS139)

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

## PRODUCT INFORMATION

| | |
|---|---|
| **Specificity** | This antibody binds to both SARS-CoV and SARS-CoV-2 with high affinity. |
| **Target** | SARS-CoV-2 Spike RBD |
| **Immunogen** | The original monoclonal antibody was generated by sequencing peripheral blood lymphocytes of a patient exposed to the SARS-CoV. |
| **Isotype** | IgG1 Kappa |
| **Source/Host** | Humanized |
| **Species Reactivity** | SARS-CoV-2, SARS |
| **Clone** | CR3022 |
| **Purification** | Protein A purified |
| **Conjugate** | Biotin |
| **Applications** | ELISA |
| **Format** | Liquid |
| **Size** | 100 µl |
| **Buffer** | PBS |
| **Preservative** | 0.05% Sodium Azide |
| **Storage** | Store at 4°C in the dark. |

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# 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 |

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