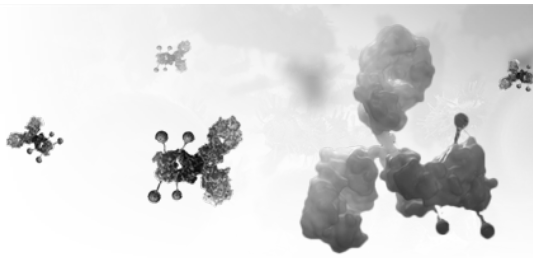

Chimeric Human Anti-SARS-CoV-2 RBD monoclonal Antibody, Omicron Reactive, clone BN233 (CABT-B2109)

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

PRODUCT INFORMATION

Specificity	This product is a specific antibody against SARS-CoV-2 Spike protein RBD domain. No cross-reactivity is detected with Spike protein RBD domain of other coronaviruses, including SARS-CoV, MERS-CoV, HCoV-229E, HCoV-NL63, HCoV-OC43 and HCoV-HKU1.
Target	SARS-CoV-2 Spike RBD
Immunogen	Recombinant SARS-CoV-2 Spike S1 protein
Isotype	IgG1, kappa
Source/Host	Human
Species Reactivity	SARS-CoV-2
Clone	BN233
Conjugate	unconjugated
Applications	ELISA, LFIA, Neut
Format	Lyophilized
Size	100 µg
Buffer	0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Storage	For long term storage, the product is stable for up to 3 years at -70°C from date of receipt; For short term storage, the product is stable for up to 12 months at 2-8°C from date of receipt.

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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 that bind S1 are ACE2, DPP4, APN, etc. The spike protein is essential for both host specificity and viral infectivity. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.
Keywords	SARS-CoV-2 spike glycoprotein; SARS-CoV-2 spike; SARS-CoV-2; SARS-CoV; 2019-nCoV; Coronavirus; Human Coronavirus; HCoV; SARS; SARS CoV; SARS-CoV-2 S1; 2019-nCoV S1; COVID-19; SARS-CoV-2 S1;Omicron;Omicron variant;Delta variant;WT, no-variants

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