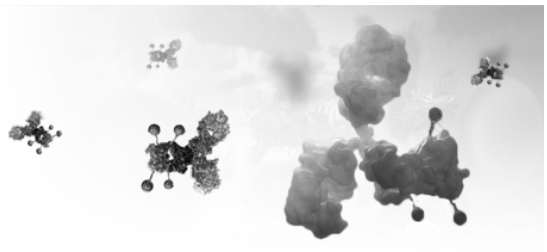

Magic™ Mouse Anti-SARS-CoV-2 Trimeric S1 Monoclonal antibody, clone C4589N (CABT-CS142)

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

PRODUCT INFORMATION

Specificity	This antibody with its corresponding pair was prepared against the linear epitope, so it is not conformation dependent.
Target	SARS-CoV-2 S1
Immunogen	Recombinant SARS-CoV-2 S1 Protein.
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	SARS-CoV-2
Clone	C4589N
Purification	> 90% (Protein A Purification)
Conjugate	unconjugated
Applications	This antibody was designed to work with saliva patient samples that do not require lysis.
Format	Liquid
Size	1mg
Buffer	Phosphate Buffered Saline, pH 7.4
Preservative	None
Storage	Store at -20°C, avoid repeated freeze/thaw cycles.

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 Protein; SARS-CoV-2 S1; SARS-CoV-2 Spike 1 Protein; SARS-CoV-2 Spike