



# Rabbit Anti-SARS-CoV-2 Envelope Polyclonal antibody (CABT-CS086)

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

## PRODUCT INFORMATION

<b>Specificity</b>	Predicted reactivity based on immunogen sequence: SARS-CoV Envelope proteins: (100%)
<b>Target</b>	SARS-CoV-2 Envelope
<b>Immunogen</b>	The immunogen is located within the first 50 amino acids of SARS-CoV-2 Envelope.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	SARS-CoV-2, SARS
<b>Purification</b>	Affinity chromatography purified via peptide column
<b>Conjugate</b>	unconjugated
<b>Applications</b>	ELISA
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	PBS
<b>Preservative</b>	0.02% sodium azide
<b>Storage</b>	The antibody can be stored at 4° C for three months and -20° C, stable for up to one year

## BACKGROUND

**Introduction**

Coronavirus disease 2019 (COVID-19), formerly known as 2019-nCoV acute respiratory disease, is an infectious disease caused by SARS-CoV-2, a virus closely related to the SARS virus. The disease is the cause of the 2019–20 coronavirus outbreak. The structure of 2019-nCoV consists of the following: a spike protein (S), hemagglutinin-esterase dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleocapsid protein (N) and RNA. Envelope protein is a small polypeptide that contains at least one  $\alpha$ -helical transmembrane domain. It involves in several aspects of the virus's life cycle, such as assembly, budding, envelope formation, and pathogenesis. E protein has membrane permeabilizing activity, which provides a possible rationale to inhibit in vitro ion channel activity of some synthetic coronavirus E proteins, and also viral replication.

**Keywords**

SARS-CoV-2 E Protein; SARS-CoV-2 E; SARS-CoV-2 Envelope Protein; SARS-CoV-2 Envelope; SARS-CoV-2