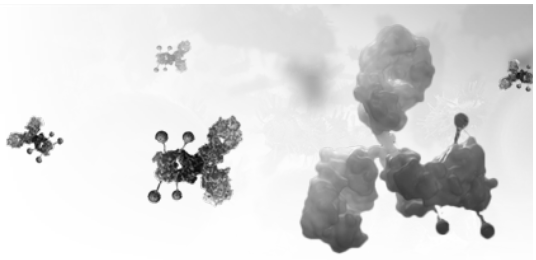

Rabbit Anti-HCoV-NL63 Spike (S1) Polyclonal Antibody (CABT-Z962R)

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

PRODUCT INFORMATION

Immunogen	HCoV-NL63 spike subunit 1 (S1), REC31896.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Affinity Purified
Conjugate	Unconjugated
Applications	ELISA
Format	Liquid
Concentration	Lot specific
Size	100 µg
Buffer	PBS, 0.2µm filtered.
Preservative	0.09% Sodium Azide
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

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Introduction	The coronaviruses are a family of related RNA viruses within the order Nidovirales. They contain a positive-sense, single-stranded, 26-32kb RNA genome protected by a nucleocapsid of helical symmetry. Their viral capsids are surrounded by a lipid envelope, which is interrupted by trimeric Spike proteins that project from the capsid surface. Human coronavirus NL63 (HCoV-NL63) is a species of alphacoronavirus that was first identified in 2004 in a seven-month-old child in the Netherlands (Van der Hoek, 2004). HCoV-NL63 infection has since been confirmed worldwide and is associated with many common symptoms and diseases, such as moderate upper respiratory tract infections, severe lower respiratory tract infection, croup and bronchiolitis. The virus is found primarily in young children, the elderly, and immunocompromised patients with acute respiratory illness. It also has a seasonal association in temperate climates. Like the other mild cold-causing human coronaviruses, HCoV-229E, HCoV-OC43 and HCoV-HKU1, HCoV-NL63 has a worldwide distribution, with seasonal surges occurring in the winter months (Wat et al., 2004). Like the other cold-causing coronaviruses, reinfection with HCoV-NL63 is common. The reason for this is not yet clearly defined but may be due to a weak antibody response (Raoult et al., 2020).
Keywords	HCoV NL63 Spike;HCoV-NL63;HCoV NL63;NL63;NL63 Spike;NL63 Spike Protein;NL63 S Protein

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