



Sino Biological
Biological Solution Specialist



SRAS-CoV-2 Antigen Reagents

Coronavirus SARA-CoV-2 (2019-nCoV) belongs to the betacoronavirus which leads to pneumonia (covid-19). SARS-CoV-2 shows similarities to SARS-CoV (79.5%) and bat coronaviruses (96%). Same as all other coronaviruses, the genome of 2019-nCoV encodes the spike protein, the envelope protein, the membrane protein, and the nucleocapsid protein.

Sino Biological Inc. has developed a panel of recombinant antigens for this new coronavirus, including the N (nucleocapsid) protein, S protein, the S1 and S2 subunits of the S protein, and the RBD domain of the S proteins, and antibodies that recognize the S protein.

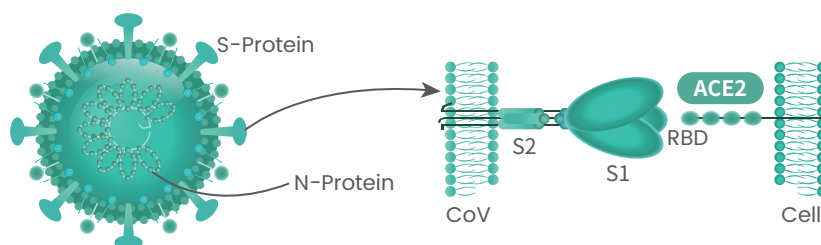
 **Stratech**

SARS-CoV-2 (2019-nCoV) Antigens



Spike protein mediates receptor binding and membrane fusion. It contains two subunits, S1 and S2. S1 contains a receptor binding domain (RBD), which is responsible for recognizing and binding with the cell surface receptor. The spike protein is the common target for neutralizing antibodies and vaccines. 2019-nCoV can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor.

The nucleocapsid Protein (N-protein) is the most abundant protein in coronavirus. The N-protein is a highly immunogenic phosphoprotein, and it is normally very conserved. The N protein of coronavirus is often used as a marker in diagnostic assays.



N-Protein



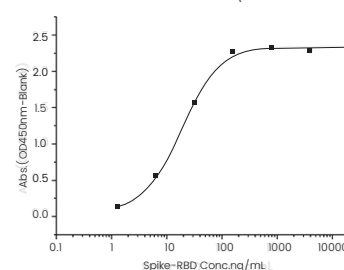
40588-V08B (His tag)
Expressed in Insect Cells

S-RBD



40592-V05H (mFc tag)
Expressed in Human Cells
40592-V08B (His tag)
Expressed in Insect Cells

S-RBD binds with ACE2 (10108-H08H)



S1



40591-V08H (His tag)
Expressed in Human Cells
40591-V08B1 (His tag)
Expressed in Insect Cells

40591-V05H1 (mFc tag)
Expressed in Human Cells
40591-V02H (Fc tag)
Expressed in Human Cells

S2



40590-V08B (His tag)
Expressed in Insect Cells

S-Protein



40589-V08B1
(S1+S2, His tag)
Expressed in Insect Cells

More Coronavirus Antigens



SARS-CoV



HCoV-HKU1



HCoV-229E



MERS-CoV

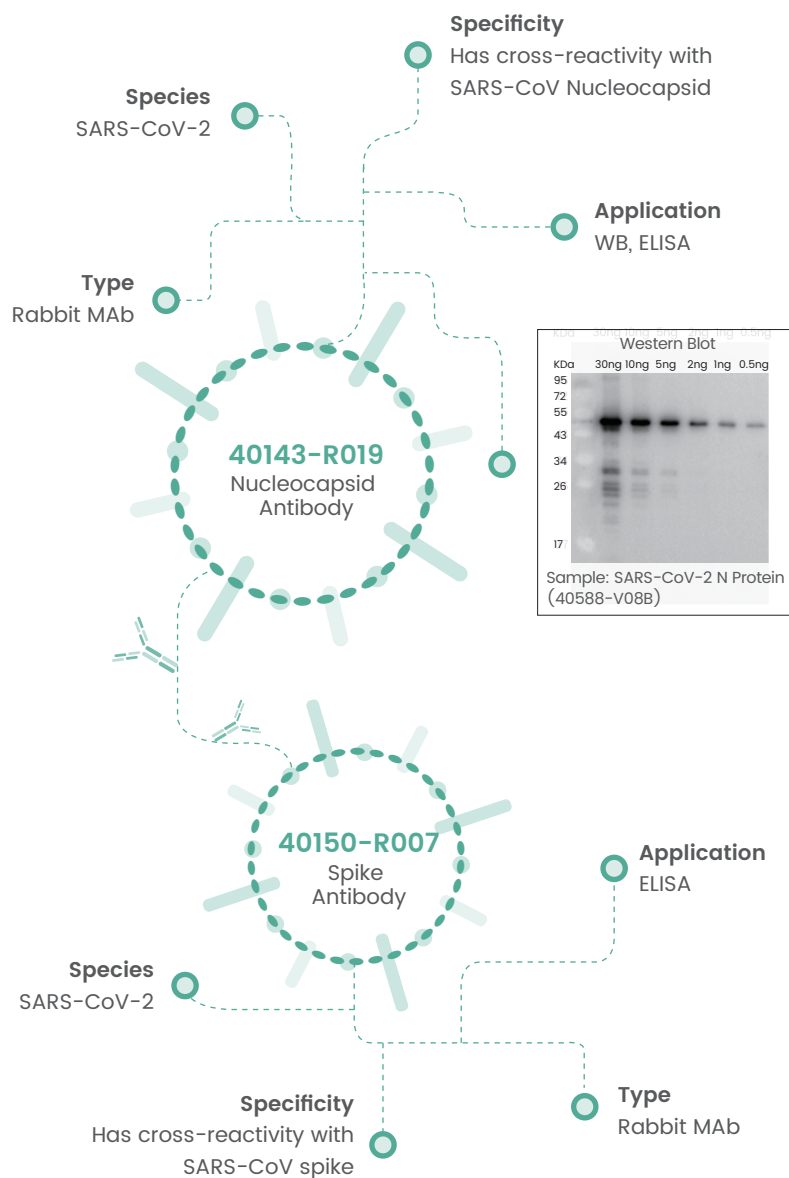


HCoV-NL63



HCoV-OC43

SARS-CoV-2 (2019-nCoV) Antibodies



Recombinant ACE2

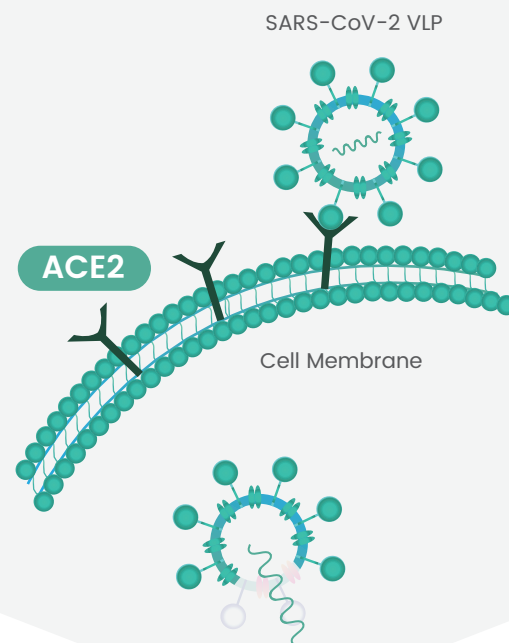
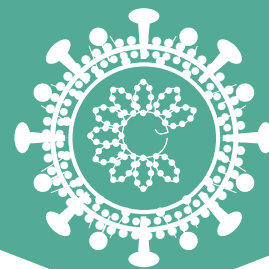


ACE2 is expressed on the surface of the host cells. The interaction between ACE2 and the spike protein is a key event in viral infection.

| Catalogue | Species | Expression Host | Purity | Tag |
|------------|---------|-----------------|--------|----------|
| 10108-H08H | Human | HEK293 Cells | > 95 % | His |
| 10108-H02H | Human | HEK293 Cells | > 95 % | Fc |
| 10108-H05H | Human | HEK293 Cells | > 90 % | Fc |
| 50249-M03H | Mouse | HEK293 Cells | > 95 % | Fc & His |
| 50249-M08H | Mouse | HEK293 Cells | > 95 % | His |
| 80031-R08H | Rat | HEK293 Cells | > 97 % | His |
| 90211-C02H | Rhesus | HEK293 Cells | > 95 % | Fc |
| 90211-C08H | Rhesus | HEK293 Cells | > 95 % | His |

More virus related reagents, please visit:

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