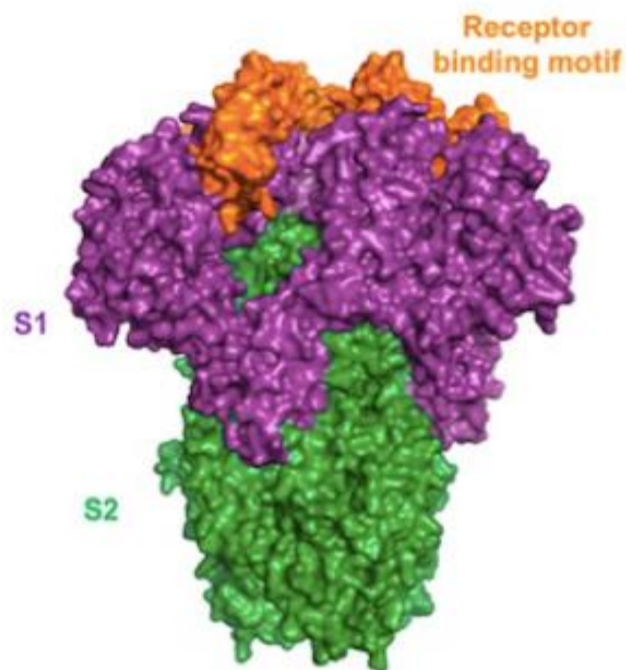


# SHENZHEN SEKBIO Inc.

To assist our customer to diagnose the coronavirus more precisely

## Question: Why spike protein is so important



**Spike protein has 2 subunits: S1 and S2**

**S protein is the most exposed protein of COVID 19**

**And S2 is comparatively less exposed than S1.**

**S2 may be accessible to antibodies during the complex conformational changes involved in viral entry of coronavirus.**

Percentage sequence identity with SARS-CoV-2				
	S protein	N protein	M protein	E protein
SARS-CoV	76.00%	90.60%	90.10%	94.70%
MERS-CoV	29.40%	45.90%	39.20%	34.10%

**By comparing the sequence identity between COVID-19, SARS-COV and MERS-Cov, you will find one problem for N protein! They are so similar between COVID-19, and SARS-COV. While S protein can help to improve your specificity.**

### Our product list

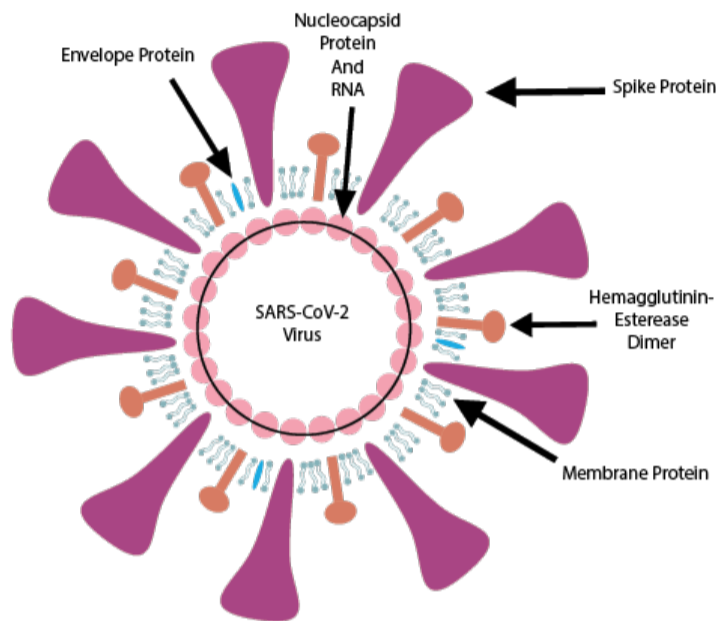
Product Name	Catalog No.	Origin
Recombinant Nucleocapsid Antigen	HP811-01	E. coli
Recombinant Nucleocapsid Antigen	HP811-04	E. coli
Recombinant Nucleocapsid Antigen	HP811-08	E. coli
Recombinant Spike Antigen RBD Fragment	HP811-60	HEK293 Cells

Please contact: [info@sekbio.com](mailto:info@sekbio.com), for more information and technology consultancy

# SHENZHEN SEKBIO Inc.

To assist our customer to diagnose the coronavirus more precisely

**Question: What is the role of nucleocapsid in coronavirus diagnosis?**



## Nucleocapsid Protein

A highly immunogenic and Abundantly expressed protein during infection

Percentage sequence identity with SARS-CoV-2				
	S protein	N protein	M protein	E protein
<b>SARS-CoV</b>	76.00%	90.60%	90.10%	94.70%
<b>MERS-CoV</b>	29.40%	45.90%	39.20%	34.10%

**By comparing the sequence identity between COVID-19, SARS-COV and MERS-Cov, you will find one problem for N protein! They are so similar between COVID-19, and SARS-COV. So be careful for the possible false positive for COVID-19.**

**Our product list (By Shenzhen SEKBIO):**

Product Name	Catalog No.	Origin
Recombinant Nucleocapsid Antigen	HP811-01	E. coli
Recombinant Nucleocapsid Antigen	HP811-04	E. coli
Recombinant Nucleocapsid Antigen	HP811-08	E. coli
Recombinant Spike Antigen RBD Fragment	HP811-60	HEK293 Cells

Please contact: [info@sekbio.com](mailto:info@sekbio.com), for more information and technology consultancy