



# **Abbexa's COVID-19 Product Range**

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The Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) is an emergent virus responsible for the respiratory illness Coronavirus Disease 2019 (COVID-19). First documented in the city of Wuhan (China), it has spread to most countries across the globe.

Abbexa is proud to offer an extensive range of products to support research into SARS-CoV-2.

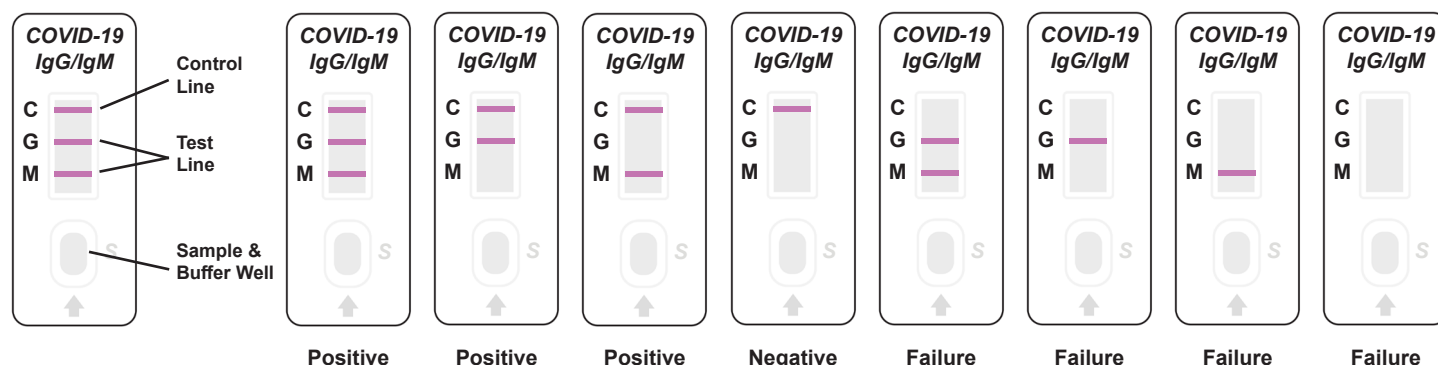
## SARS-CoV-2 IgG/IgM Rapid Test Kit

Our COVID-19 Antibody Test Kit for professional use is available. This is a single-use in vitro diagnostic device used for laboratory and hospital testing. It detects IgG and IgM antibodies in blood against SARS-CoV-2, the virus that causes COVID-19. The presence of such antibodies indicates if exposure to a coronavirus has taken place, and whether it is a newer or older exposure. This all-inclusive kit produces fast, visual results in just 10 minutes.

The kit uses a procedure based on a lateral flow protocol. The cassette contains antigens from SARS-CoV-2 / COVID-19 conjugated to gold nanoparticles, which are collected by antibodies in the sample. Antibodies against human IgM and IgG are coated in their respective regions on a nitrocellulose membrane, where they create a coloured line due to the gold nanoparticles. A control region on the upper end of the cassette confirms if the test has been successful.

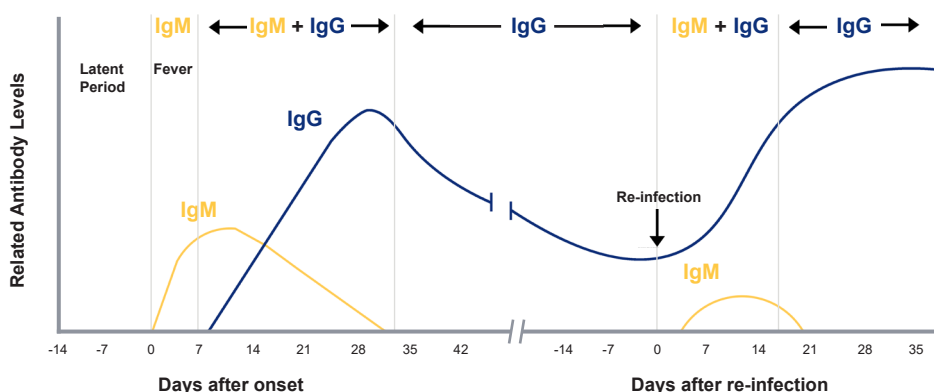


The readout should show 1 line in the C (control) region. Purple lines may appear next to the G (IgG) and M (IgM) regions depending on exposure to coronavirus. Faint lines are treated as a positive result.



## Relationship between antibody concentration and viral infection stage

During the first infection, IgM concentrations in the body rise quickly, then eventually decline as the concentration of IgG increases. In subsequent infections, IgM concentrations increase a small amount and IgG increases substantially.



[View the product online here](#)

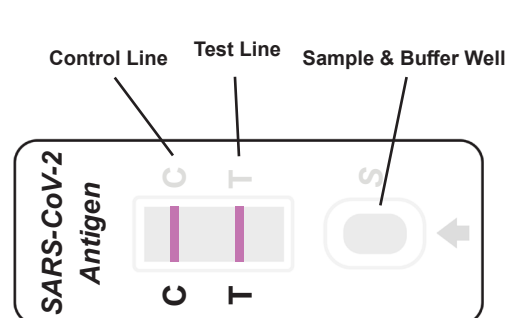
## SARS-CoV-2 Antigen Rapid Test Kit

Our COVID-19 Antigen Test Kit for professional use is also available. This is a single-use in vitro diagnostic device used for laboratory and hospital testing. This all-inclusive kit produces fast, visual results in just 10 minutes.

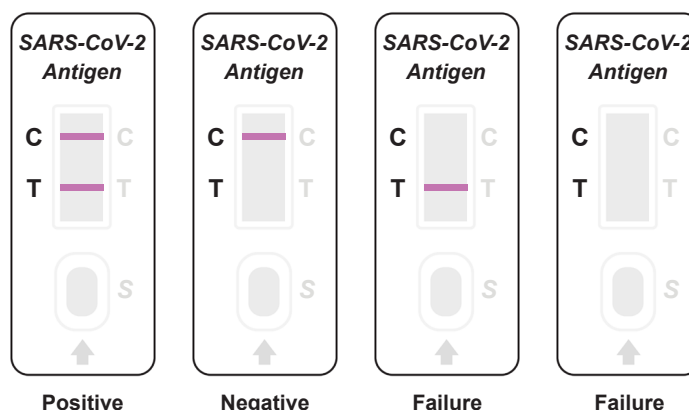
It is a qualitative lateral flow immunochromatographic assay for the detection of SARS-CoV-2 antigens in human oropharyngeal, nasal and nasopharyngeal swabs.

The cassette contains monoclonal antibodies against SARS-CoV-2 / COVID-19 conjugated to gold nanoparticles, which bind to any SARS-CoV-2 antigen present in the sample. Monoclonal antibodies against SARS-CoV-2 are coated in the test region on the nitrocellulose membrane, which bind to the antigen-antibody complex and create a coloured line due to the gold nanoparticles. A control region on the upper end of the cassette confirms if the test has been successful.

The readout should show 1 line in the C (control) region. Purple lines may appear next to the G (IgG) and M (IgM) regions depending on exposure to coronavirus. Faint lines are treated as a positive result.



[View the product online here](#)



## SARS-CoV-2 RT-qPCR Kit

Abbexa are also pleased to offer our qPCR kit to customers.

Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2/COVID-19) RT-qPCR Kit for efficient cDNA synthesis and Real-Time PCR in a single tube.

This kit contains a set of primers of fluorescent probes to differentiate between 2019-nCoV/COVID-19/SARS-CoV-2 and SARS-CoV (bat SARS related CoV). SARS-CoV-2 RNA can be detected in the FAM channel and SARS-CoV RNA can be detected in the HEX, VIC or JOE channels (depending on the equipment used).



[View the product online here](#)

## COVID-19 Kits

Catalogue Number	Product Name	Description	Product Link
abx365044	Human SARS-CoV-2 Neutralizing Antibody ELISA Kit	For the qualitative detection of SARS-CoV-2/COVID-19 Neutralizing Antibodies in Human serum and plasma.	<a href="#">View Here</a>
abx365086	Human SARS-CoV-2 Neutralizing Antibody ELISA Kit	For the semi-quantitative detection of SARS-CoV-2/COVID-19 Neutralizing Antibodies in Human serum and plasma.	<a href="#">View Here</a>
abx392294	Human SARS-CoV-2 Nucleocapsid Protein IgG ELISA Kit	For the qualitative detection of SARS-CoV-2/COVID-19 Nucleocapsid Protein IgG antibodies in Human serum and plasma.	<a href="#">View Here</a>
abx392295	Human SARS-CoV-2 Nucleocapsid Protein IgM ELISA Kit	For the qualitative detection of SARS-CoV-2/COVID-19 Nucleocapsid Protein IgM antibodies in Human serum and plasma.	<a href="#">View Here</a>
abx365028	Human SARS-CoV-2 Spike Protein IgG ELISA Kit	For the qualitative detection of SARS-CoV-2/COVID-19 Spike Protein IgG antibodies in Human serum and plasma.	<a href="#">View Here</a>
abx365029	Human SARS-CoV-2 Spike Protein IgM ELISA Kit	For the qualitative detection of SARS-CoV-2/COVID-19 Spike Protein IgM antibodies in Human serum and plasma.	<a href="#">View Here</a>
abx365085	Human SARS-CoV-2 Spike Protein Total Antibody ELISA Kit	For the qualitative detection of SARS-CoV-2/COVID-19 Spike Protein total antibodies in Human serum and plasma.	<a href="#">View Here</a>
abx365030	SARS-CoV-2 Nucleocapsid Protein ELISA Kit	For the quantitative detection of SARS-CoV-2/COVID-19 Nucleocapsid Protein in Human serum, plasma and other biological fluids.	<a href="#">View Here</a>
abx365031	SARS-CoV-2 Spike Protein S1 RBD ELISA Kit	For the quantitative detection of SARS-CoV-2/COVID-19 Spike Protein S1 RBD in Human tissue homogenates, cell lysates, cell culture supernatants, saliva, and other biological fluids.	<a href="#">View Here</a>

## Mutant SARS-CoV-2 Recombinant Proteins

Alpha (UK) B.1.1.7 Variant - N501Y Mutation			
The Alpha (B.1.1.7) variant was first identified in Kent, UK. It contains the N501Y mutation in the spike protein's receptor-binding domain, which has been reported to increase binding to human ACE2.			
Catalogue Number	Product Name	Description	Product Link
abx160084	SARS-CoV-2 S1 Protein RBD (Alpha B.1.1.7 Variant)	Recombinant protein expressed in Insect cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>
abx620010	SARS-CoV-2 Spike Protein RBD (Alpha B.1.1.7 Variant)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>

## Mutant SARS-CoV-2 Recombinant Proteins

## Beta (South Africa) B.1.351 Variant - K417N, E484K and N501Y Mutations

The Beta (B.1.351) variant was first identified in South Africa. It contains the K417N, E484K and N501Y mutations in the spike protein's receptor-binding domain.

Catalogue Number	Product Name	Description	Product Link
abx160085	SARS-CoV-2 S1 Protein RBD (Beta B.1.351 Variant)	Recombinant protein expressed in Insect cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>
abx620004	SARS-CoV-2 Spike Protein RBD (Beta B.1.351 Variant)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>

## Gamma (Brazil) P.1 Variant - K417T, E484K and N501Y Mutations

The Gamma (P.1) variant was first identified in Brazil. It contains the K417T, E484K and N501Y mutations in the spike protein's receptor-binding domain.

Catalogue Number	Product Name	Description	Product Link
abx160086	SARS-CoV-2 S1 Protein RBD (Gamma P.1 Variant)	Recombinant protein expressed in Insect cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>
abx620006	SARS-CoV-2 Spike Protein RBD (Gamma P.1 Variant)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>

## Epsilon (California) B.1.429/B.1.427 (CAL.20C) Variant - L452R Mutation

The L452R mutation is present in the B.1.429/B.1.427 (CAL.20C/Epsilon) variants first identified in California, USA.

Catalogue Number	Product Name	Description	Product Link
abx160087	SARS-CoV-2 S1 Protein RBD (L452R Mutation)	Recombinant protein expressed in Insect cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>
abx620007	SARS-CoV-2 Spike Protein RBD (L452R Mutation)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>

## Mutant SARS-CoV-2 Recombinant Proteins

## India B.1.36 (AP) Variant — N450K Mutation

The N450K mutation is present in the B.1.36 variant first identified in Andhra Pradesh, India.

Catalogue Number	Product Name	Description	Product Link
abx620011	SARS-CoV-2 Spike Protein RBD (N450K Mutation)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>

## Kappa (India) B.1.617.1 Variant — E484Q and L452R Double-Mutation

The B.1.617 variant was first identified in India. It contains the E484Q and L452R mutations and is therefore widely known as a “double mutation” variant. These mutations have been reported to increase binding to human ACE2 and reduce antibody neutralization of the virus, in comparison with other variants.

Catalogue Number	Product Name	Description	Product Link
abx160088	SARS-CoV-2 S1 Protein RBD (B.1.617 Variant)	Recombinant protein expressed in Insect cells. Tag: His-tag.	<a href="#">View Here</a>
abx620009	SARS-CoV-2 Spike Protein RBD (B.1.617 Variant)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>

## Delta (India) B.1.617.2 Variant — L452R and T478K Double-Mutation

The B.1.617.2 (Delta) variant was first identified in India. It contains the L452R and T478K mutations, which appear to increase viral infectivity compared with other variants.

Catalogue Number	Product Name	Description	Product Link
abx620012	SARS-CoV-2 Spike Protein RBD (Delta B.1.617.2 Variant)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>

## Mutant SARS-CoV-2 Recombinant Proteins

## Delta Plus B.1.617.2 (AY.1) Variant — K417N, L452R and T478K Mutations

The B.1.617.2.1 (Delta Plus) variant, also known as AY.1, contains the K417N mutation as well as the L452R and T478K mutations in the original B.1.617.2 (Delta) variant. These mutations appear to increase viral infectivity compared with other variants.

Catalogue Number	Product Name	Description	Product Link
abx620018	SARS-CoV-2 Spike Protein RBD (Delta Plus B.1.617.2.1 Variant)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>

## Other Mutations

The E484K mutation is present in several variants, including those first identified in South Africa and Brazil. This mutation has been reported to reduce antibody neutralization of the virus.  
The S477N mutation has been reported to increase binding to human ACE2.

Catalogue Number	Product Name	Description	Product Link
abx620005	SARS-CoV-2 Spike Protein RBD (E484K Mutation)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>
abx620008	SARS-CoV-2 Spike Protein RBD (S477N Mutation)	Recombinant protein expressed in Mammalian cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>

## SARS-CoV-2 Antibody Pairs

Catalogue Number	Product Name	Description	Product Link
abx024239	SARS-CoV-2/COVID-19 Nucleocapsid Protein Antibody	Mouse Monoclonal against SARS-CoV-2/ COVID-19 NP (Capture Antibody)	<a href="#">View Here</a>
abx024238	SARS-CoV-2/COVID-19 Nucleocapsid Protein Antibody	Mouse Monoclonal against SARS-CoV-2/ COVID-19 NP (Detection Antibody)	<a href="#">View Here</a>
abx024240	SARS-CoV-2/COVID-19 Trimeric Spike 1 Protein Antibody	Mouse Monoclonal against SARS-CoV-2/ COVID-19 Trimeric S1 Protein (Capture Antibody)	<a href="#">View Here</a>
abx024241	SARS-CoV-2/COVID-19 Trimeric Spike 1 Protein Antibody	Mouse Monoclonal against SARS-CoV-2/ COVID-19 Trimeric S1 Protein (Detection Antibody)	<a href="#">View Here</a>
abx243136	SARS-CoV-2/COVID-19 Spike Glycoprotein RBD Antibody Pair	Contains a recombinant Llama with Human IgG1 Fc capture antibody, and recombinant Mouse with Human IgG1 Fc detection antibody.	<a href="#">View Here</a>



## Mutant SARS-CoV-2 Antibodies

Catalogue Number	Product Name	Description	Product Link
abx376487	SARS-CoV-2 Spike Protein RBD Recombinant Neutralizing Antibody	Recombinant Human Monoclonal Antibody against SARS-CoV-2/COVID-19 Spike Protein RBD (Delta B.1.617.2 Variant).	<a href="#">View Here</a>

## SARS-CoV-2 Antibodies

Catalogue Number	Product Name	Description	Product Link
abx226552	SARS-CoV-2 Envelope Protein Polyclonal Antibody	Rabbit Polyclonal Antibody against SARS-CoV-2/COVID-19 Envelope Protein.	<a href="#">View Here</a>
abx229489	SARS-CoV-2 Nucleocapsid Protein Antibody	Mouse Monoclonal Antibody against SARS-CoV-2/COVID-19 NP.	<a href="#">View Here</a>
abx229490	SARS-CoV-2 Nucleocapsid Protein Antibody	Rabbit Monoclonal Antibody against SARS-CoV-2/COVID-19 NP.	<a href="#">View Here</a>
abx229487	SARS-CoV-2 Nucleocapsid Protein Antibody	Monoclonal Antibody against SARS-CoV-2/COVID-19 NP, containing Mouse variable region and Human IgG1 constant region.	<a href="#">View Here</a>
abx243131	SARS-CoV-2 Nucleocapsid Protein Antibody	Antibody expressed in HEK293 cells for the detection of SARS-CoV-2/COVID-19 NP. Contains Mouse variable regions and Human IgG1 Kappa constant regions.	<a href="#">View Here</a>
abx243132	SARS-CoV-2 Nucleocapsid Protein Antibody	Antibody for the detection of SARS-CoV-2/COVID-19 NP. Expressed in HEK293 cells and contains Mouse scFv and C-terminal Human IgG1 Fc tag.	<a href="#">View Here</a>
abx243133	SARS-CoV-2 Nucleocapsid Protein Antibody (HRP)	Antibody conjugated to HRP for the detection of SARS-CoV-2/COVID-19 NP. Expressed in HEK293 cells and contains Mouse scFv and C-terminal Human IgG1 Fc tag.	<a href="#">View Here</a>
abx243134	SARS-CoV-2 Nucleocapsid Protein Antibody (FITC)	Antibody conjugated to FITC for the detection of SARS-CoV-2/COVID-19 NP. Expressed in HEK293 cells and contains Mouse scFv and C-terminal Human IgG1 Fc tag.	<a href="#">View Here</a>
abx243135	SARS-CoV-2 Nucleocapsid Protein Antibody (Biotin)	Antibody conjugated to Biotin for the detection of SARS-CoV-2/COVID-19 NP. Expressed in HEK293 cells and contains Mouse scFv and C-terminal Human IgG1 Fc tag.	<a href="#">View Here</a>
abx226548	SARS-CoV-2 Nucleocapsid Protein Antibody	Human Monoclonal Antibody against SARS-CoV-2/COVID-19 NP.	<a href="#">View Here</a>
abx226549	SARS-CoV-2 Nucleocapsid Protein scFv Antibody	Monoclonal Antibody expressed in E. coli against SARS-CoV-2/COVID-19 NP scFv.	<a href="#">View Here</a>



## SARS-CoV-2 Antibodies

Catalogue Number	Product Name	Description	Product Link
abx229486	SARS-CoV-2 Spike RBD Protein Antibody	Rabbit Polyclonal Antibody against SARS-CoV-2/COVID-19 Spike RBD.	<a href="#">View Here</a>
abx243130	SARS-CoV-2 Spike Glycoprotein RBD Nanobody	Monoclonal antibody expressed in HEK293 cells for the detection of SARS-CoV-2/COVID-19 S RBD Protein. This antibody contains VHH fused with Human IgG1 Fc at the C-terminus.	<a href="#">View Here</a>
abx229484	SARS-CoV-2 Spike Protein Antibody	Monoclonal Antibody against SARS-CoV-2/ COVID-19 S Protein, containing Mouse variable region and Human IgG1 constant region.	<a href="#">View Here</a>
abx376479	SARS-CoV-2 Spike Protein Antibody	Antibody expressed in CHO cells against SARS-CoV-2 Spike Glycoprotein, containing Mouse variable region and Human IgM constant region.	<a href="#">View Here</a>
abx376478	SARS-CoV-2 Spike Glycoprotein Antibody	Monoclonal antibody expressed in CHO cells against SARS-CoV-2 Spike Glycoprotein, containing Mouse variable region and Human IgG1 Kappa constant region.	<a href="#">View Here</a>
abx243125	SARS-CoV-2 Spike Glycoprotein Antibody	Antibody expressed in HEK293 cells for the detection of SARS-CoV-2/COVID-19 S Protein. Contains Mouse variable regions and Human IgG1 Kappa constant regions.	<a href="#">View Here</a>
abx243126	SARS-CoV-2 Spike Glycoprotein Antibody	Antibody expressed in HEK293 cells for the detection of SARS-CoV-2/COVID-19 S Protein. Contains Mouse scFv and C-terminal Human IgG1 Fc tag.	<a href="#">View Here</a>
abx243127	SARS-CoV-2 Spike Glycoprotein Antibody (HRP)	Antibody conjugated to HRP for the detection of SARS-CoV-2/COVID-19 S Protein. Expressed in HEK293 cells and contains Mouse scFv and C-terminal Human IgG1 Fc tag	<a href="#">View Here</a>
abx243128	SARS-CoV-2 Spike Glycoprotein Antibody (FITC)	Antibody conjugated to FITC for the detection of SARS-CoV-2/COVID-19 S Protein. Expressed in HEK293 cells and contains Mouse scFv and C-terminal Human IgG1 Fc tag.	<a href="#">View Here</a>
abx243129	SARS-CoV-2 Spike Glycoprotein Antibody (Biotin)	Antibody conjugated to Biotin for the detection of SARS-CoV-2/COVID-19 S Protein. Expressed in HEK293 cells and contains Mouse scFv and C-terminal Human IgG1 Fc tag.	<a href="#">View Here</a>
abx226551	SARS-CoV-2 Spike Glycoprotein Polyclonal Antibody (Middle Region)	Rabbit Polyclonal Antibody against SARS-CoV-2/COVID-19 Spike Glycoprotein.	<a href="#">View Here</a>
abx229485	SARS-CoV-2 S1 Protein Antibody	Human Monoclonal Antibody against SARS-CoV-2/COVID-19 S1.	<a href="#">View Here</a>
abx226547	SARS-CoV-2 S1 Protein Recombinant Antibody	Human Monoclonal Antibody against SARS-CoV-2/COVID-19 S1.	<a href="#">View Here</a>

## Wild Type SARS-CoV-2 Recombinant Proteins

Catalogue Number	Product Name	Description	Product Link
abx163962	SARS-CoV-2 3C-like-Proteinase	Recombinant protein expressed in E. coli. Tag: N-terminal 6x His-tag.	<a href="#">View Here</a>
abx163976	SARS-CoV-2 Envelope Protein	Recombinant protein expressed in E. coli. Tag: N-terminal beta-barrel platform (BBP) protein and 6x His-tag.	<a href="#">View Here</a>
abx160073	SARS-CoV-2 Nucleocapsid Protein	Recombinant protein expressed in HEK293 cells. Tag: DYKDDDDK tag.	<a href="#">View Here</a>
abx163973	SARS-CoV-2 Nucleocapsid Protein	Recombinant protein expressed in E. coli. Tag: N-terminal 6x His-tag.	<a href="#">View Here</a>
abx163974	SARS-CoV-2 Nucleoprotein NTD Domain	Recombinant protein expressed in E. coli. Tag: N-terminal 6x His-tag.	<a href="#">View Here</a>
abx163975	SARS-CoV-2 Nucleoprotein CTD Domain	Recombinant protein expressed in E. coli. Tag: N-terminal 6x His-tag.	<a href="#">View Here</a>
abx600062	SARS-CoV-2 Nucleoprotein	Recombinant protein expressed in E. coli. Tag: N-terminal 6x His-tagged.	<a href="#">View Here</a>
abx160071	SARS-CoV-2 S1 RBD Protein	Recombinant protein expressed in HEK293 cells. Tag: C-terminal His-tag.	<a href="#">View Here</a>
abx160074	SARS-CoV-2 S1 Protein	Recombinant protein expressed in Insect cells. Tag: His-tag.	<a href="#">View Here</a>
abx160075	SARS-CoV-2 S1 NTD Protein	Recombinant protein expressed in Insect cells. Tag: His-tag.	<a href="#">View Here</a>
abx160076	SARS-CoV-2 S1 RBD Protein	Recombinant protein expressed in Insect cells. Tag: His-tag.	<a href="#">View Here</a>
abx163963	SARS-CoV-2 S Protein RBD	Recombinant protein expressed in Mammalian cells. Tag: C-terminal mFc tag.	<a href="#">View Here</a>
abx163964	SARS-CoV-2 S Protein RBD	Recombinant protein expressed in Mammalian cells. Tag: C-terminal 6x His-tag.	<a href="#">View Here</a>
abx163965	SARS-CoV-2 S Protein RBD-SD1	Recombinant protein expressed in Mammalian cells. Tag: C-terminal mFc His-tag.	<a href="#">View Here</a>
abx163966	SARS-CoV-2 S Protein RBD-SD1	Recombinant protein expressed in Mammalian cells. Tag: C-terminal 6x His-tag.	<a href="#">View Here</a>

## Wild Type SARS-CoV-2 Recombinant Proteins

Catalogue Number	Product Name	Description	Product Link
abx163967	SARS-CoV-2 S1 Protein	Recombinant protein expressed in Mammalian cells. Tag: C-terminal mFc tag.	<a href="#">View Here</a>
abx163968	SARS-CoV-2 S1 Protein	Recombinant protein expressed in Mammalian cells. Tag: C-terminal Fc tag.	<a href="#">View Here</a>
abx163969	SARS-CoV-2 S1 Protein	Recombinant protein expressed in Mammalian cells.	<a href="#">View Here</a>
abx163970	SARS-CoV-2 S1 Protein	Recombinant protein expressed in Mammalian cells. Tag: C-terminal 6x His-tag.	<a href="#">View Here</a>
abx163971	SARS-CoV-2 S1 Protein CTD	Recombinant protein expressed in Mammalian cells. Tag: N-terminal 8x His and Flag tag.	<a href="#">View Here</a>
abx160077	SARS-CoV-2 S2 Protein	Recombinant protein expressed in Insect cells. Tag: His-tag.	<a href="#">View Here</a>
abx600064	SARS-CoV-2 Spike Glycoprotein	Recombinant protein expressed in E. coli. Tag: N-terminal 6X His-tagged.	<a href="#">View Here</a>
abx163972	SARS-CoV-2 S Protein NTD	Recombinant protein expressed in Mammalian cells. Tag: C-terminal 6x His-tag.	<a href="#">View Here</a>
abx268575	SARS-CoV-2 S1 and S2 ECD Protein	Recombinant protein expressed in Mammalian cells. Tag: C-terminal 6x His-tag.	<a href="#">View Here</a>