

## SARS-CoV-2 S1 Protein RBD (Alpha B.1.1.7 Variant)

Catalogue No.: abx160084

Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2/COVID-19) Spike S1 Protein Receptor-Binding Domain (RBD) is a recombinant protein expressed in Insect cells.

The SARS-CoV-2 Spike Protein (S protein) is a viral protein that allows the entry of SARS-CoV-2 into human cells. The protein forms trimers on the viral capsid and binds to human Angiotensin Converting Enzyme 2 (ACE2) located on the cell surface. The protein has a cleavage site between the S1 and S2 subunits that is targeted by the human enzyme Furin, and it may also cause the development of a syncytium (cell fusion). Antibodies to S protein can prevent viral entry as well as target the virus for further immune action.

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.

<b>Target:</b>	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) S1 Protein RBD (Alpha B.1.1.7 Variant)
<b>Target Modification:</b>	Asn501Tyr
<b>Modification:</b>	Mutation
<b>Origin:</b>	Virus
<b>Expression:</b>	Recombinant
<b>Tested Applications:</b>	ELISA, WB
<b>Host:</b>	Insect
<b>Recommended dilutions:</b>	Optimal dilutions/concentrations should be determined by the end user.
<b>Conjugation:</b>	Unconjugated
<b>Form:</b>	Liquid
<b>Purity:</b>	≥ 90% (SDS-PAGE)
<b>Purification:</b>	Purified by affinity chromatography.
<b>Storage:</b>	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
<b>Molecular Weight:</b>	Calculated MW: 26 kDa Observed MW (12% reducing SDS-PAGE): ~28 kDa

# Datasheet

Version: 3.0.0

Revision date: 20 Jun 2025



**Sequence Fragment:** 319-541 AA.

**Tag:** C-terminal His tag

**Buffer:** PBS, pH 7.4. Does not contain preservatives.

**Concentration:** 2.2 mg/ml

**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

This product is shipped with dry ice.

**Directions for use:** Centrifuge before opening to ensure complete recovery of vial contents.

For Reference Only