

# SARS-CoV-2 Spike (S) Glycoprotein RBD

## Antigen Specification

**Product Number: 46100**

**Description:**

SARS-CoV-2 Spike (S) Glycoprotein RBD.  
Recombinant antigen for in vitro research and manufacturing use only.

**Immunological function:**

Binds IgG/IgM/IgA-type human antibodies.

**Origin:**

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

**Expression construct:**

A cDNA coding for the SARS-CoV-2 Spike (S) Glycoprotein RBD fused to a deca-histidine purification tag.

**Biochemical tests:**

SDS-PAGE (purity > 80%); Western blot with patient sample.

**Calculated molecular weight:**

26,86 kDa (protein component excluding glycosylation).

**Calculated isoelectric point:**

pH 8.85

**Immunological tests/Functionality:**

ELISA, immunodot analyses and line assay analyses with positive/negative serum samples.  
SARS-CoV-2 Spike (S) Glycoprotein RBD is known to react with changes in conformational / coating properties when exposed to different ionic strengths. It is recommended to use this antigen with low ionic strength coating buffers.

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent.  
Storage conditions: -70°C or below.  
Repeated freeze/thaw cycles should be avoided.

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