

Product Datasheet

Spike protein (RBD) antibody (orb758994)

Description

Human monoclonal antibody to Spike

Species/Host

Camelus

Reactivity

Virus

Conjugation

Unconjugated

Tested

ELISA

Applications
Immunogen

This clone was originally isolated in a form of a synthetic nanobody (sybody) via a 'target swap' selection procedure against RBD-vYFP using ribosomal display and against RBD-Fc fusion during phage display rounds.

Target

Spike protein (RBD)

Preservatives

PBS with 0.02% Proclin 300.

Storage

Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Note

For research use only

Application notes

This antibody is recommended for detection of SARS CoV 2 or 2019-nCoV. Its high specificity to the novel coronavirus SARS-Cov-2 was confirmed via ELISA testing (Walter et al., 2020). Furthermore, grating-coupled interferometry demonstrated that this antibody binds the receptor binding domain (RBD) of the spike protein with high affinity (Walter et al., 2020). Subsequent testing showed that this clone exhibits exceptionally strong inhibition of binding of SARS-Cov-2 RBD to hACE2, which is the receptor for the virus (signal of RBD association with hACE2 decreased over 90%) (Walter et al., 2020).

Isotype

IgG1-Fc Fusion

Clonality

Monoclonal

Purity

Purified

Uniprot ID
P0DTC2
Expiration Date

12 months from date of receipt.