Product Datasheet

Spike protein (RBD) antibody (orb759000)

Description	Human monoclonal antibody to Spike
Species/Host	Camelus
Reactivity	Virus
Conjugation	Unconjugated
Tested Applications	ELISA
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 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	IgM-Fc Fusion
Clonality	Monoclonal
Purity	Purified
Uniprot ID	**P0DTC2**
Expiration Date	12 months from date of receipt.

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