

## Antibody Datasheet

**Name:** Human IgG1 Anti SARS-CoV-2 Spike (S1) RBD Antibody (CE5)

**Product Code:** MAB12458-100 / MAB12458-500

**Batch #:**

**Date of Manufacture:**

**Product Description:** Recombinant humanised version of the mouse monoclonal antibody MAB12443. Antibody is specific for SARS-CoV-2 receptor binding domain (RBD).

**Clone Number:** CE5.D11.D12.C12

**Isotype:** IgG1 Kappa

**Amount:** 0.1 mg / 0.5 mg

**Concentration:** mg/ml

**Purity:** >95%

**Presentation:** Liquid

**Buffer:** Phosphate Buffered Saline, pH 7.4, Filter Sterile

**Stabilizer:** No stabilizer added

**Preservative:** No preservative added

**Immunogen:** SARS-CoV-2 Spike subunit 1 (S1), REC31882 (aa 1-223)

**Purification:** Protein A

**Specificity:** Antibody is specific for SARS-CoV-2 receptor binding domain (RBD). The original monoclonal antibody (MAB12443) is specific for the spike receptor binding domain of SARS-CoV-2, recognizing both Wuhan-Hu-1 and the Indian (Delta) variant. The original monoclonal antibody (MAB12443) shows no cross-reactivity in ELISA using RBD from SARS-CoV-2 UK (Alpha), South African (Beta) or Brazilian (Gamma) variants, SARS-CoV-2 spike subunit 2 (S2) or spike subunit 1 (S1) proteins from SARS-CoV, MERS-CoV, HCoV-NL63, HCoV-OC43, HCoV-229E and HCoV-HKU1. It does not bind to SARS-CoV-2 (D614G, E484K Mutant) S1 (REC31902).

**Applications:** ELISA. Not suitable for WB.



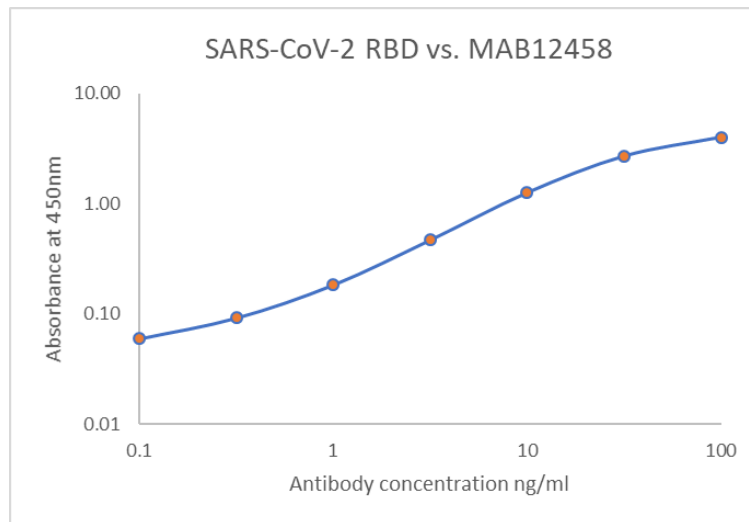
**Usage Guidelines**

**Short Term Storage:** +4°C

**Long Term Storage:** -20°C

**Storage Guidelines:** Avoid repeat freeze-thaw cycles

**ELISA:** Antibody is specific for SARS-CoV-2 receptor binding domain (RBD) in antigen-down ELISA. Greiner High binding 96 well plate was coated with 100µl of SARS-CoV-2 RBD (REC31882, 1000ng/ml). Primary antibody dilutions were added at 100-0.1ng/ml (100µl). Secondary goat anti human IgG HRP antibody (100µl) was added at 1:5000 dilution. TMB substrate (M0701A) was added (100µl) until colour developed (5-15 min.) and then the reaction stopped with 200µl of 1M HCl. Plate was read at 405/450nm.



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**Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.**

