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**Rabbit Anti-SARS-CoV-2 Spike RBD
Polyclonal Antibody**

Catalogue#	Format	Size	Concentration
CL7891AP-S	Purified	20 µg	1.0 mg/ml
CL7891AP	Purified	200 µg	1.0 mg/ml
CL7891AP-BULK	Purified	1 mg	1.0 mg/ml
CL7891B	Biotin	100 µg	0.1 mg/ml
CL7891HP	HRPO	100 µg	1.0 mg/ml

Isotype: Rabbit IgG

DESCRIPTION:

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is the strain of coronavirus that causes coronavirus disease 2019 (COVID-19), the respiratory illness responsible for the COVID-19 pandemic. Like other coronaviruses, SARS-CoV-2 is comprised of four structural proteins: spike (S), envelope (E), membrane (M), and nucleocapsid (N) proteins. The spike (S) protein is a type I transmembrane glycoprotein that is comprised of two subunits, S1 and S2. Within the S1 subunit is a receptor binding domain (RBD), that is responsible for binding to the receptor angiotensin converting enzyme 2 (ACE2) and allowing the virus to enter host cells. As the RBD is responsible for initial viral entry into the host cell, it has become an attractive target for therapeutics and vaccines.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from serum via Protein A Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin: Biotin conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

HRPO: HRPO conjugated IgG buffered in PBS with 40% glycerol (v/v) and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. No NaN₃ with other preservatives.

STORAGE/STABILITY:

For all formats, store at + 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATION:

Immunogen: Recombinant 2019-nCoV Spike protein S1 subunit, receptor-binding domain (RBD) (aa319-541) expressed in CHO cells.

Continued Overleaf...

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Specificity: 2019-nCoV Spike protein S1 subunit, receptor-binding domain (RBD) (aa319-541).

Applications: This antibody is suitable for use in ELISA (1:16K – 1:32K dilution). This antibody has not been tested in other applications.

REFERENCES:

1. Gorbalenya AE, et al. (2020). The species Severe acute respiratory syndrome-related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2. *Nature Microbiology*. 5 (4): 536–544.
2. Wu C, et al. (2020). Analysis of therapeutic targets for SARS-CoV-2 and discovery of potential drugs by computational methods. *Acta Pharmaceutica Sinica B*. 10 (5): 766–788.
3. Xiao X, et al. (2004) The SARS-CoV S glycoprotein. *Cell Mol Life Sci*. 61(19-20):2428-2430.
4. Lan J, et al. Structure of the SARS-CoV-2 spike receptor-binding domain bound to the ACE2 receptor. *Nature*. 2020;581(7807):215-220.

Optimum conditions for use of this antibody in analytical procedures should be established in each laboratory

For Research Use Only

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