SARS-CoV-2

COVID-19 Human IgM IgG Assay Kit

Catalog # KA5826 Size 1 Kit

Applications

COVID-19 IgM Assay		
Quality Control	OD450	
Blank (No Serum)	0.05	
Blank (No Plasma)	0.049	
Serum/Plasma Dilution Folds	200X	2000X
Normal Serum-1	0.07	0.05
Normal Serum-2	0.07	0.05
Normal Plasma	0.085	0.054

COVID-19 IgG Assay		
Quality Control	OD450	
Blank (No Serum)	0.05	
Blank (No Serum) spiked with humanized anti-COVID-19 mAb (5 ug/mL)	0.41	
Blank (No Plasma)	0.048	
Blank (No Plasma) spiked with humanized anti-COVID-19 mAb (1 ug/mL)	0.335	
Serum/Plasma Dilution Folds	200X	2000X
Normal Serum	0.05	0.05
Normal Serum spiked with humanized anti-COVID-19 mAb (5 ug/mL)	0.43	0.40
Normal Plasma	0.12	0.057
Normal Plasma spiked with humanized anti-COVID-19 mAb (1 ug/mL)	0.41	0.353

Product Image

Product Image

Specification

Product Description	COVID-19 Human IgM IgG Assay Kit is an indirect enzyme-linked immunoassay (ELISA) for qualitative determination of COVID-19 (SARS-CoV-2) human serum IgM and IgG.
Supplied Product	Kit content: 1. 96-Well COVID-19 Spike Protein Coated Microplate 2. Anti-human IgM antibody (HRP) 3. Anti-human IgG antibody (HRP) 4. 10x PBST 5. TMB Reagent 6. Stop Solution

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Suitable Sample	Serum and Plasma
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human
Regulatory Status	For research use only (RUO), GMP grade
Quality Control Testing	**Serial Dilution**
Storage Instruction	Store 96-Well COVID-19 Spike Protein Coated Microplate and TMB Reagent at 2-8°C. Store 10x PBST and Stop Solution at room temperature. Store Anti-human IgM antibody (HRP) and Anti-human IgG antibody (HRP) at -20°C. Avoid repeated freezing and thawing.
Note	**Product Image** **Product Image**
COA	COA Download

Applications

- Qualitative

Publication Reference

- Immunity testing against COVID-19 from blood by an IoT-enabled and AI-controlled multiplexed microfluidic platform.

  Nabil H Bhuiyan, Joon S Shim.

  Biosensors & Bioelectronics 2024 Jan; 244:115791.

  Application: ELISA, Human, Blood

- Development of rapid and cost-effective top-loading device for the detection of anti-SARS-CoV-2 IgG/IgM antibodies.

  Essam H Ibrahim, Hamed A Ghramh, Mona Kilany.

  Scientific Reports 2021 Jul; 11(1):14926.

  Application: Quant, Human, Human serum

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- Antibody profile in symptomatic/asymptomatic severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infected Saudi persons.

  Essam H Ibrahim, Mohammad Y Alshahrani, Hamed A Ghramh, Mona Kilany.

  Saudi Journal of Biological Sciences 2021 Aug; 28(8):4677.

  Application: Quant, Human, Human serum

- Placement on COVID-19 Units Does Not Increase Seroconversion Rate of Pediatric Graduate Medical Residents.

  Timothy Crisci, Samuel Arregui, Jorge Canas, Jenaya Hooks, Melvin Chan, Cory Powers, Andrew L Schwaderer, David S Hains, Michelle C Starr.

  Frontiers in Pediatrics 2021 Apr; 9:633082.

  Application: Quant, Human, Human blood

- Development of in-house ELISAs for the detection of anti-SARS-CoV-2 RBD and N IgG and IgM antibodies in biological samples.

  Essam H. Ibrahim, Hamed A. Ghramh, Mona Kilany.

  Journal of King Saud University. Science 2021 Jun; 33(4):101439.

  Application: ELISA, Human, Sera

- Evaluation of a Broad Panel of SARS-CoV-2 Serological Tests for Diagnostic Use.

  Maren Werner, Philip Pervan, Vivian Glück, Florian Zeman, Michael Koller, Ralph Burkhardt, Thomas Glück, Jürgen J Wenzel, Barbara Schmidt , André Gessner, David Peterhoff.

  Journal of clinical medicine 2021 Apr; 10(8):1580.

  Application: Qual, Human, Serum

- SARS-CoV-2 in severe COVID-19 induces a TGF-β-dominated chronic immune response that does not target itself.

  Marta Ferreira-Gomes, Andrey Kruglov, Pawel Durek, Frederik Heinrich, Caroline Tizian, Gitta Anne Heinz, Anna Pascual-Reguant, Weijie Du, Ronja Mothes, Chaofan Fan, Stefan Frischbutter, Katharina Habenicht, Lisa Budzinski, Justus Ninnemann, Peter K Jani, Gabriela Maria Guerra, Katrin Lehmann, Mareen Matz, Lennard Ostendorf, Lukas Heiberger, Hyun-Dong Chang, Sandy Bauherr, Marcus Maurer, Günther Schönrich, Martin Raftery, Tilmann Kallinich, Marcus Alexander Mall, Stefan Angermair, Sascha Treskats

  Nature Communications 2021 Mar; 12(1):1961.

  Application: Quant, Human, HEK 293T cells, Human serum

- CYP2D6 and CYP3A4 variants influence the risk and outcome of COVID-19 infection among rheumatoid arthritis patients maintained on hydroxychloroquine.

  Mohammad Salem Hareedy, Sonya Mohamed Rashad, Helal F Hetta, Sara Mahmoud Hassanien, Hebatallah Abdellatif, Manal Hassanien.

  Drug Metabolism and Personalized Therapy 2021 Mar; [Epub].

  Application: Quant, Human, Human serum

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- Longitudinal SARS-CoV-2 seroconversion and functional heterogeneity in a pediatric dialysis unit.

  Jorge J Canas, Michelle C Starr, Jenaya Hooks, Samuel Arregui, Amy C Wilson, Aaron E Carroll, Vijay Saxena, Fatima Amanat, Florian Krammer, Jeffrey Fill, Andrew Schade, Antonio Chambers, Jack Schneider, Andrew L Schwaderer, David S Hains

  Kidney Int 2021 Feb; 99(2):484-486.

- Assessment of Seroconversion to SARS-CoV-2 in a Cohort of Pediatric Kidney Transplant Recipients.

  Corina Nailescu, Myda Khalid, Amy C Wilson, Fatima Amanat, Samuel Arregui, Jorge Canas, Jenaya Hooks, Florian Krammer, Andrew L Schwaderer, David S Hains

  Front Pediatr 2020 Nov; 8:601327.

- Coronavirus disease 2019 (COVID-19) in two pediatric patients with kidney disease on chronic immunosuppression: A case series.

  Ashley Rawson, Amy C Wilson, Andrew L Schwaderer, Elizabeth Spiwak, Bethanne Johnston, Shannon Anderson, Corina Nailescu, Sushil Gupta, John C Christenson, David S Hains, Michelle C Starr.

  Hemodialysis International. International Symposium on Home Hemodialysis 2021 Jan; 25(1):E1.

  Application: Quant, Human, Human serum

- Incidence, clinical course and risk factor for recurrent PCR positivity in discharged COVID-19 patients in Guangzhou, China: A prospective cohort study.

  Jiazhen Zheng, Rui Zhou, Fengjuan Chen, Guofang Tang, Keyi Wu, Furong Li, Huamin Liu, Jianyun Lu, Jiyuan Zhou, Ziying Yang, Yuxin Yuan, Chunliang Lei, Xianbo Wu.

  PLoS Neglected Tropical Diseases 2020 Aug; 14(8):e0008648.

  Application: Qual, Human

- Asymptomatic Seroconversion of Immunoglobulins to SARS-CoV-2 in a Pediatric Dialysis Unit.

  David S Hains, Andrew L Schwaderer, Aaron E Carroll, Michelle C Starr, Amy C Wilson, Fatima Amanat, Florian Krammer

  JAMA 2020 Jun; 323(23):2424-2425.

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