

SARS-CoV-2 ARRAY (4-PLEX)



Supplied by:

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The SARS-CoV-2 Array is a multiplexed serological assay to be used in research and larger surveillance studies.

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Quansys Biosciences' SARS-CoV-2 Human IgG (4-Plex) Q-Plex multiplex assay is a qualitative enzyme-linked immunosorbent assay that detects IgG antibodies to SARS-CoV-2 in human serum or plasma. SARS-CoV-2 is the novel coronavirus that causes COVID-19. The SARS-CoV-2 virus has several structural proteins including two spike proteins, S1 and S2. When an individual is infected with the SARS-CoV-2 virus, their immune system produces antibodies to these viral proteins. The typical immune response produces detectable antibody levels ~8-10 days following the onset of symptoms.

The SARS-CoV-2 Human IgG (4-Plex) Q-Plex Multiplex ELISA detects IgG antibodies to both the S1 and S2 spike proteins present in a blood sample. If antibodies are detected, the result will be considered positive. If antibodies are not detected, the result will be considered negative. The assay only detects IgG antibodies, not other classes of antibodies such as IgM or IgA.

The multiplex assay allows for simultaneous indirect ELISA on the following four printed spots:

- 1- SARS-CoV-2 Spike Glycoprotein (S1), a recombinant antigen which contains amino acids 1-674 of subunit 1. Spike S1 is expressed in mammalian HEK293 cells with a Sheep Fc-Tag.
- 2- SARS-CoV-2 Spike Glycoprotein (S2) is a recombinant antigen which contains the Spike subunit 2 protein, amino acids 685-1211. Spike S2 is expressed in mammalian HEK293 cells with a Sheep Fc-Tag.
- 3- Sheep Fc, is a negative control to ensure no cross-reactivity occurs between human IgGs in the sample and the Fc-Tag on the SARS-Cov-2 Spike proteins.
- 4- Anti-Human IgG is a positive control to ensure the kit performs and the IFU was followed correctly.



Q-View™ Imager generated image demonstrating typical sample results and reproducibility (samples shown were run in duplicates in each row). Samples can be run in duplicate or singlet allowing 45 to 90 unique samples to be run simultaneously on the same plate.



SARS-CoV-2 KIT

Catalog #	Product Name	
691649HU	SARS-CoV-2 Human IgG (4-Plex)	Call for pricing



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