



**OPTICALQ**

SARS CoV-2 nAb FIA: Immunity Monitor



# Detect SARS-CoV-2 nAbs within 15 minutes



Monitor and evaluate  
vaccine efficacy and immunity



Yield 99.5% accuracy with our  
fluorescence immunoassay analyzer



Scalable solution with results  
within 15 minutes



Batch multiple samples and yield  
3,000 tests per day in 1 device



Does not require any  
expensive lab equipment



Easy and simple  
3 steps: dilute, drop, analyze

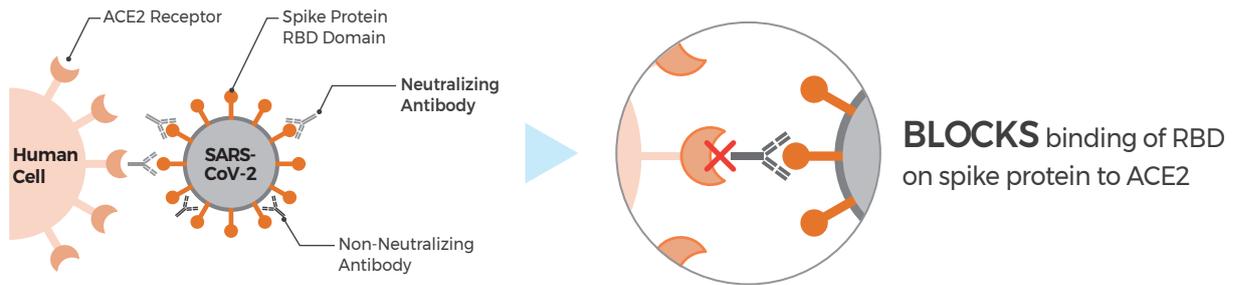


# The Optical Q™ SARS CoV-2 Neutralization Antibody Test

Accurately measure your level of immunity

## Neutralizing Antibodies (Nabs)

SARS-CoV-2 vaccines provide active acquired immunity against SARS-CoV-2 by inciting **growth of neutralizing antibodies (nAbs)**—special antibodies designed to prevent SARS CoV-2 from binding to the ACE2 receptor of human cells. High levels of nAbs indicate immunity against COVID-19.



## Clinical Applications



### Immunization monitoring

Detection of SARS-CoV-2 nAbs in serum of recovering COVID-19 patients



### Vaccine Evaluation

Detection of SARS-CoV-2 nAbs in serum of Vaccinated patients

## Why Optical Q™ nAb?



### Vaccines do not guarantee immunity – they work differently on every individual

Accurate measurements of nAbs in recovering patients and/or vaccinated patients are crucial not only to evaluate vaccine efficacy, but also to assure which patients have developed immunity.



### Very few solutions

Standard igm/igg antibody tests – which are universally available – do not detect for nAbs and can only provide an indirect indication for immunity. Optical Q™ SARS CoV-2 nAb is one few tests that can detect and quantitatively measure nAbs.



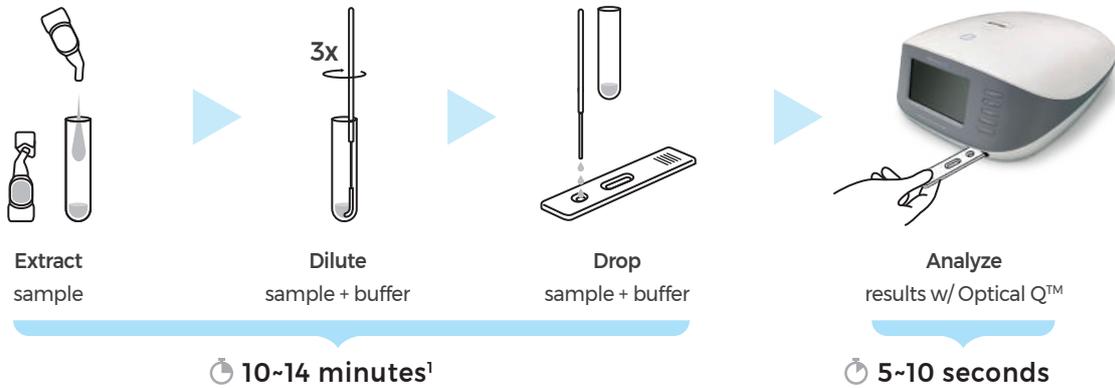
### Available solutions are expensive in all aspects

Solutions that do provide accurate nAb tests are expensive, time-consuming, and are not scalable. Optical Q™ SARS CoV-2 nAb test is 4x quicker, 1/3rd the cost of the next best solution, and does not require lab equipment for scalability.

# The Optical Q™ SARS CoV-2 Neutralization Antibody Test

## The most accurate rapid test kit for nAbs

### How it works



<sup>1</sup>Prepare multiple samples at once so you can analyze batches of samples and test up to 3,000 tests in 1 day with 1 device.

### Specifications

#### Optical Q™ CoV-19 nAb

Working range	30~100%
Reference range	<30% Negative / ≥30% Positive
Performance	CV<10%
Sample type	Serum/Plasma
Sample volume	100 uL
Loading volume	100 uL
Assay time	15 mins
Storage condition	Cartridge 2-30°C / Detection buffer: 2-8°C
Shelf life	24 months
Test / Kit	25 Tests/Box



### Performance

#### Clinical Performance

#### Clinical Agreement using Cancerrop's Q-Sens® as the comparator method

		RT-PCR test (Q-Sens®)	
		Positive (n = 60)	Negative (n = 30)
Optical Q™ CoV-19 nAb	Positive	59	1
	Negative	1	29
	Positive Percent Agreement	98.3%	
	Negative Percent Agreement		96.7%