

ichroma[™] COVID-19 nAb

Testing for neutralizing antibody against SARS-CoV-2 virus

- Neutralizing antibody test from convalescence patient
- Test of vaccination efficacy after injection
- Validation of sustained vaccination efficacy



What is neutralizing antibody test?

- A neutralizing antibody (nAb) is an antibody that is responsible for defending cells from pathogens, SARS-CoV-2 virus.
- nAb will inhibit the binding and entry of virus into cells by blocking the interaction of spike protein (viral proteins) and ACE2 protein (human cell receptor protein) of SARS-CoV-2 virus.
- nAb is also produced by vaccination and if nAb is not detected in a vaccinated person, it means the failure of vaccination (not effective vaccination).
- nAb has a function to inhibit the SARS-CoV-2 virus infection, while total antibody just binds to the virus and its components.

Product	ichroma™ Covid-19 nAb	
Principle of test	TRFLFA	
Test type	Semi-quantitative	
Samples	WB / Serum / Plasma	
Sample volume	10 µL	
Working Range	10 - 100% (inhibition)	
Cut-off	30% (positive: ≥ 30%)	
Reference reagent	SARS-CoV-2 Surrogate Virus Neutralization Test ELISA kit (GenScript)	
Box contents	25 test/box	
Storage	4 - 30℃	
Reference test	cPass SARS-CoV-2 Neutralization Antibody Detection Kit (GenScript), FDA EUA	

Specification

Clinical performance

		cPass™ SARS-CoV-2 Neutralization Antibody Dectection Kit		
		Positive	Negative	Total
ichroma™	Positive	34 (a)	0 (b)	34 (a+b)
COVID-19		51 (c+d)		
neutralizing Ab	Total	37 (a+c)	48 (b+d)	85 (N)

Positive percent agreement (PPA) (%) = 91.9 % ({36/(34+3)} × 100) (95 % C.I. 80.14~97.42 %) Negative percent agreement (NPA) (%) = 100.0 % ({0/(0+48)} × 100) (95 % C.I. 92.59~100.00 %)

Ordering information

Cat # CFPC-120 FPRR021	Product	ichroma™ Covid-19 nAb	ichroma™ II Reader
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