

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.

Specification

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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		

Clinical performance

		cPass™ SARS-CoV-2 Neutralization Antibody Dectection Kit			
		Positive	Negative	Total	
ichroma [™] COVID-19 neutralizing Ab	Positive	34 (a)	0 (b)	34 (a+b)	
	Negative	3 (c)	48 (d)	51 (c+d)	
	Total	37 (a+c)	48 (b+d)	85 (N)	

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

Ordering information

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

