

## ichroma ${ }^{\text {TM }}$ 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

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& C O V I D-19 n A b \\
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\end{aligned}
$$

## What is

## neutralizing antibody test?

- A neutralizing antibody ( $n A b$ ) 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.
- $n A b$ is also produced by vaccination and if $n A b$ 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

| Product | ichroma ${ }^{\text {TM }}$ Covid-19 nAb |
| :--- | :---: |
| Principle of test | TRFLFA |
| Test type | Semi-quantitative |
| Samples | WB / Serum / Plasma |
| Sample volume | $10 \mu \mathrm{~L}$ |
| Working Range | $10-100 \%$ (inhibition) |
| Cut-off | $30 \%$ (positive: $\geq 30 \%$ ) |
| Reference reagent | SARS-CoV-2 Surrogate Virus Neutralization Test ELISA kit (GenScript) |
| Box contents |  |
| Storage | 25 test/box |
| Reference test | cPass SARS-CoV-2 Neutralization Antibody Detection Kit (GenScript), |

## Clinical performance

|  |  | cPass ${ }^{\text {TM }}$ SARS-CoV-2 Neutralization Antibody Dectection Kit |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Positive | Negative | Total |
| ichroma ${ }^{\text {TM }}$ COVID-19 <br> neutralizing $A b$ | 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. $80.14 \sim 97.42 \%)$
Negative percent agreement (NPA) $(\%)=100.0 \%(\{0 /(0+48)\} \times 100)(95 \%$ C.I. $92.59 \sim 100.00 \%)$
Ordering information

| Product | ichroma ${ }^{T M}$ Covid-19 nAb | ichroma ${ }^{\text {TM }}$ II Reader |
| :--- | :---: | :---: |
| Cat \# | CFPC-120 | FPRR021 |

