

# Total Ab ELISA for SARS-CoV-2 Virus (COVID-19)

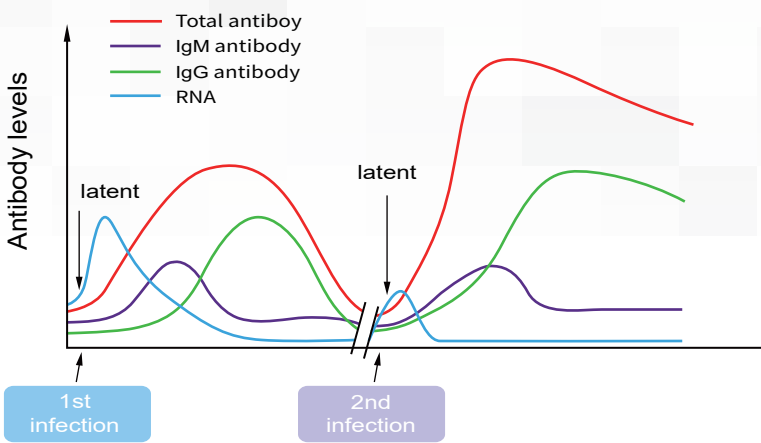
For more information:  
wtexport@ystwt.com

75 min

WANTAI



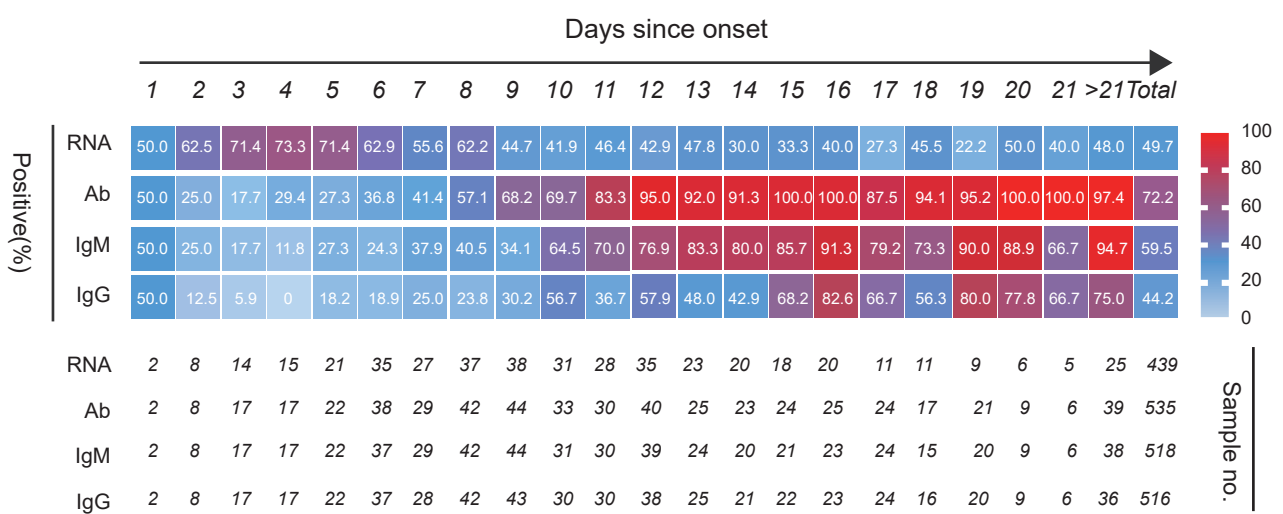
## Serological and virological markers of COVID-19



Antibody dynamics during COVID-19 infection

Wantai SARS-CoV-2 Ab ELISA is highly sensitive and specific diagnostic kit intended for high-throughput, fast antibody screening for patients suspected for **COVID-19** infection.

## Clinical importance of combined RNA and antibody testing



Reference via: <https://www.medrxiv.org/content/10.1101/2020.03.02.20030189v1>

### COVID-19 serological markers dynamics (Total Ab/ IgM/ IgG):

20%-40% of the patients developed antibodies on days 0-7 after onset

60%~70% of the patients developed antibodies on days 8-11 after onset

> 90% of the patients had detectable levels of antibodies starting from day 12 after onset.

### COVID-19 molecular markers dynamics (RNA):

RNA was detected in 60-75% of the patients on days 0-8 after onset

RNA levels decrease to 40-50% starting from day 9 after onset

### COVID-19 combined serological and molecular markers increases the sensitivity of diagnosis while maintaining the high specificity. Among the serological markers, total Ab detection has greater significance in clinical practice.

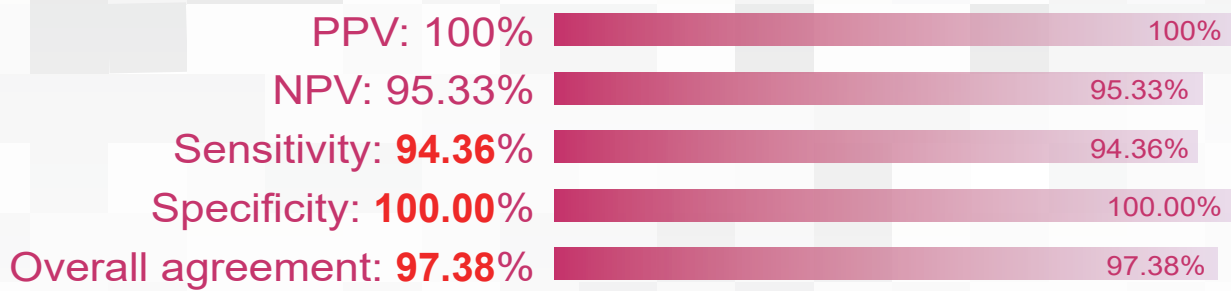
## Clinical studies in China

Prospective clinical evaluation was conducted at four hospitals in China during the 2020 COVID-19 outbreak. Samples from total of 572 cases were tested among which 266 were confirmed (China COVID-19 diagnosis protocol, including China CFDA approved PCR tests), and 306 were COVID-19 excluded cases.

Clinical trial centers	Confirmed	Excluded	Total
Academy of Military Medical Sciences	12	0	12
Shenzhen Third People's Hospital	173	33	206
Zhejiang University	81	273	354
Total	266	306	572

## Sensitivity and specificity of Wantai SARS-CoV-Ab ELISA

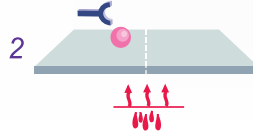
Evaluation results		Confirmed/ excluded SARS-CoV-2 results		Total
		Confirmed	Excluded	
Wantai	Positive	251	0	251
	Negative	15	306	321
Total		266	306	572



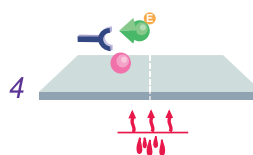
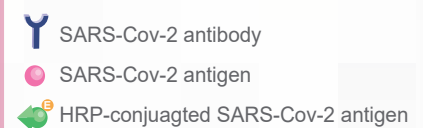
## Principle and Procedures



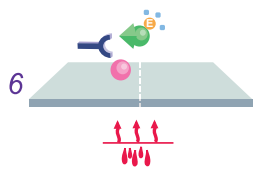
- Microwell strips pre-coated with recombinant SARS-CoV-2 antigens



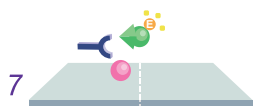
- Add 50µL Controls or 100µL of Specimens Incubation at 37°C for 30 min



- Add 100µL of HRP-Conjugate Incubation at 37°C for 30 min



- Add 50µL of Chromogen Solution A and 50µL of Chromogen Solution B Incubation at 37°C for 15 min



- Add 50µL of Stop Solution



- Read by single wavelength 450nm or dual wavelength 450/600~650nm

## Ordering Info

Cat.	Product	Detection	Specimen	Pack size	Time to result
WS-1096	SARS-CoV-2 Ab ELISA	Total Ab (IgM+IgG)	Serum/Plasma	96T/kit	75 min