

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

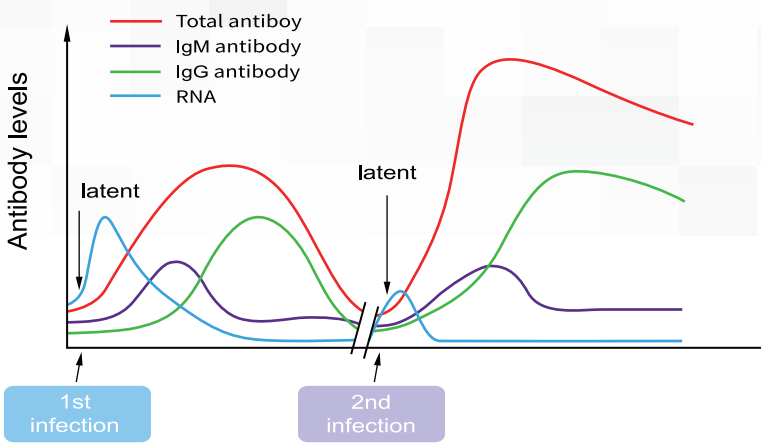
For more information:
wtexport@ystwt.com

75 min

WANTAI



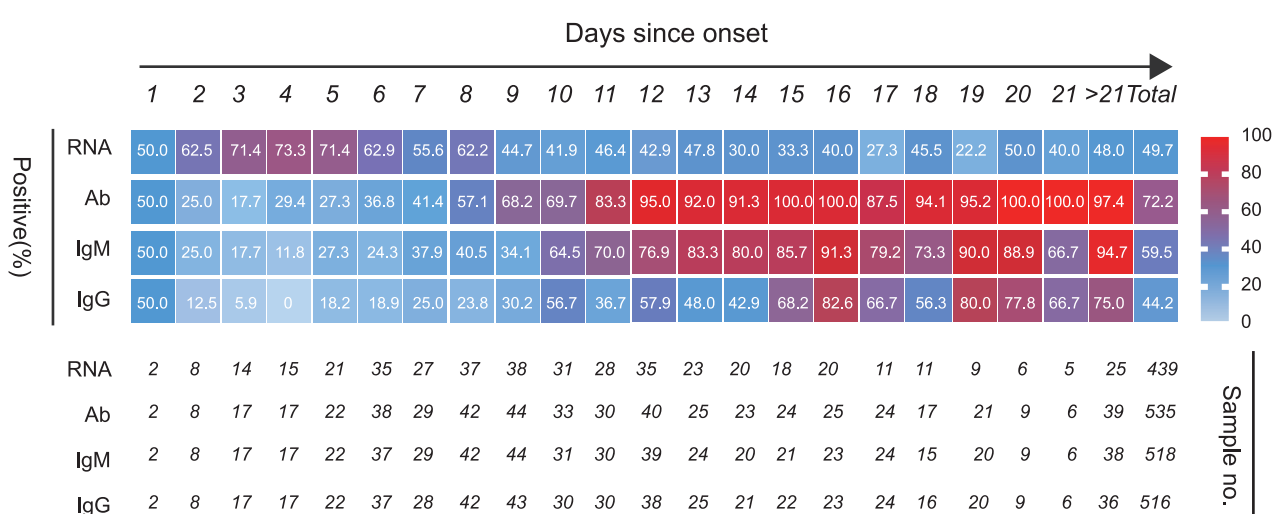
Serological and virological markers of COVID-19



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.

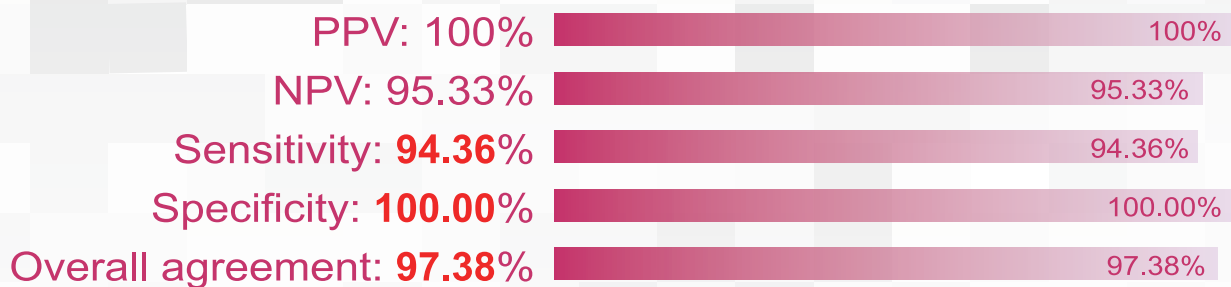
Clinical studies in China

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	137	33	206
Zhejiang University	81	273	354
Total	266	306	572

Sensitivity and specificity of Wantai SARS-CoV-Ab ELISA

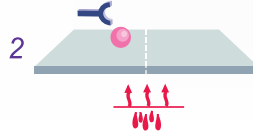
Evaluation results		Confirmed/ excluded SARS-CoV-2 results		Total
		Confirmed	Excluded	
Wantai	Positive	251	0	251
	Negative	15	306	321
Total		266	306	572



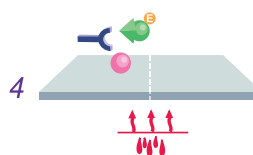
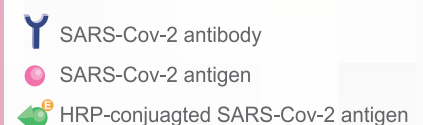
Principle and Procedures



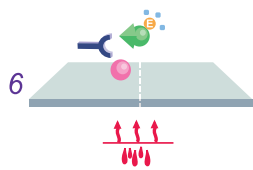
- Microwell strips pre-coated with recombinant SARS-CoV-2 antigens



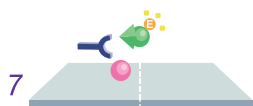
- Add 50µL Controls or 100µL of Specimens Incubation at 37°C for 30 min



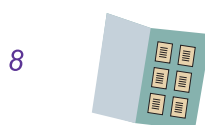
- Add 100µL of HRP-Conjugate Incubation at 37°C for 30 min



- 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