

Anti-SARS-  
CoV-2  
Total  
Antibody

## Orderable: ACOV2

Turnaround Time: 48 hours

### Alternate Name(s):

Anti-SARS-CoV-2 Antibody  
COVID Serology  
Anti-SARS-CoV-2 (IgG + IgM)

### Specimen:

Adult	Pediatric
4.5 mL Green (Lithium Heparin) top Vacutainer tube	0-2 years: 0.5 mL Green or Gold top Microtainer 2-10 years: 3 mL Green top or 2 mL Gold top tube
Serum from a 5 mL Gold top or 6 mL Red top is also acceptable	

### Collection Information:

Collect blood aseptically in a Vacutainer tube.

### Reference Ranges:

See report

### Interpretive Comments:

Interpretive Comments: Testing detects both IgG and IgM antibodies (total) to SARS-CoV-2 nucleocapsid (N) antigen.

#### Negative Results:

Negative results do not rule out acute SARS-CoV-2 infection. If acute infection is suspected, consider SARS-CoV-2 RNA testing or repeat testing in 7 to 10 days. False-negative results may occur in immunocompromised individuals or those with mild illness. Negative results do not preclude SARS-CoV-2 infection and should not be used as the sole basis for patient management decisions.



**Laboratory:**  
Core Lab



**Requisition:**  
GENERAL LABORATORY  
REQUISITION



**Method of Analysis:**  
Test performed by Roche  
Elecsys Anti-SARS-CoV-2  
Electrochemiluminescence  
immunoassay targeting  
the nucleocapsid (N)  
antigen



**Test Schedule:**  
Monday - Friday  
0800 - 1600 h



# Anti-SARS- CoV-2 Total Antibody

## Positive Results:

Presence of SARS-CoV-2 antibodies indicates current or previous infection. False-positive results may occur due to cross-reacting antibodies or other causes. It is unknown whether antibodies indicate protective immunity.

## Comments:

Serology testing examines a person's blood to see if they have antibodies to COVID-19. Testing detects both IgG and IgM antibodies (total) to SARS-CoV-2 nucleocapsid (N) antigen of the SARS-CoV-2 virus.

## **Serology testing is limited to the currently approved uses in Ontario ([See PHO COVID-19 Serology](#)) including:**

- The investigation of suspected cases of Multisystem Inflammatory Syndrome in Children (MIS-C)
- **With Approval:** Serology may be considered in patients with severe illness who have tested repeatedly negative by PCR and where serology results would be a helpful adjunctive tool for clinical/public health action and decision making

Serology testing should **NOT** be used for:

- the diagnosis of acute infection or determining if a patient is infectious
- determining immune status of the patient

Please contact Dr Michael Knauer, Clinical Biochemist (ext. 52237 or pager 17130) for questions and approval.

## Storage and Shipment:

Samples stable 7 days at 2-8 °C, freeze at -20 °C for longer storage.