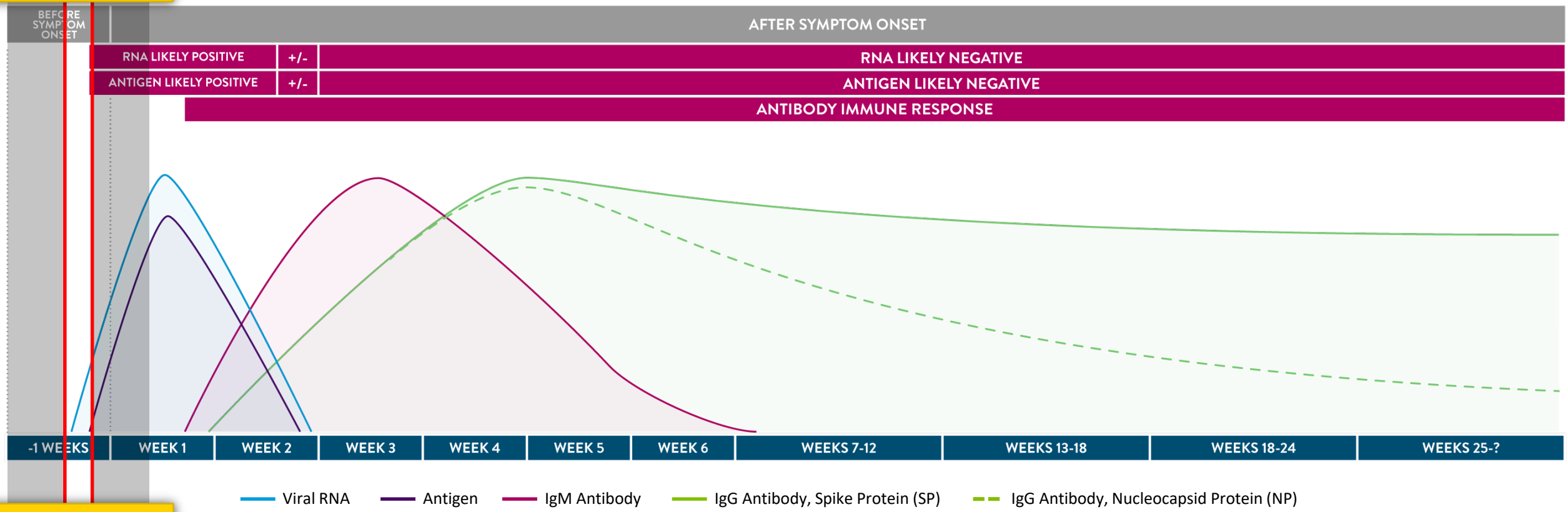
Abbott

SARS-CoV-2 Slide Rule

Click or swipe through this interactive tool to see how different COVID-19 tests can be used to help evaluate and manage a patient at different times during the course of their infection.

CLICK HERE TO GET STARTED

ADD-122466-GBL-EN



Click on the arrows to move the slider forward or backward

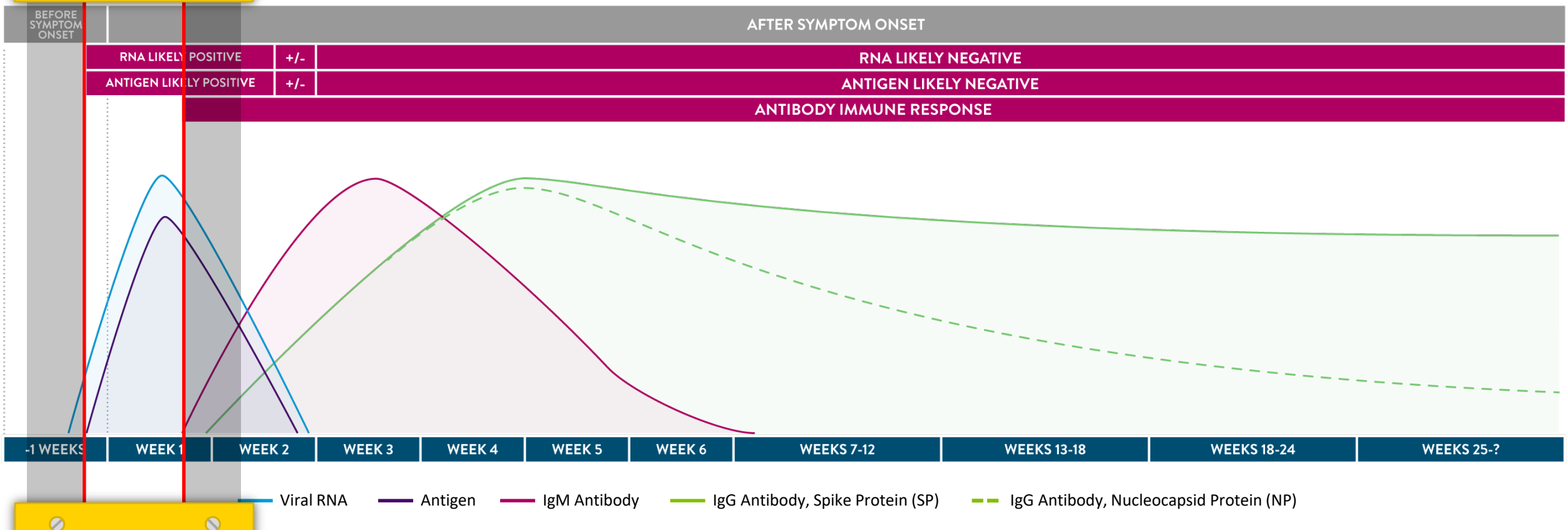
X

Patient may be in the initial period of infection when antibodies are not yet produced or are under the limit of detection.[1-11]

Following vaccination, viral load and antigen, if present, will be low and likely not detected.[14]

TEST RESULTS

- \+ RNA
- − Antigen
- − IgM
- − IgG (SP)
- − IgG (NP)

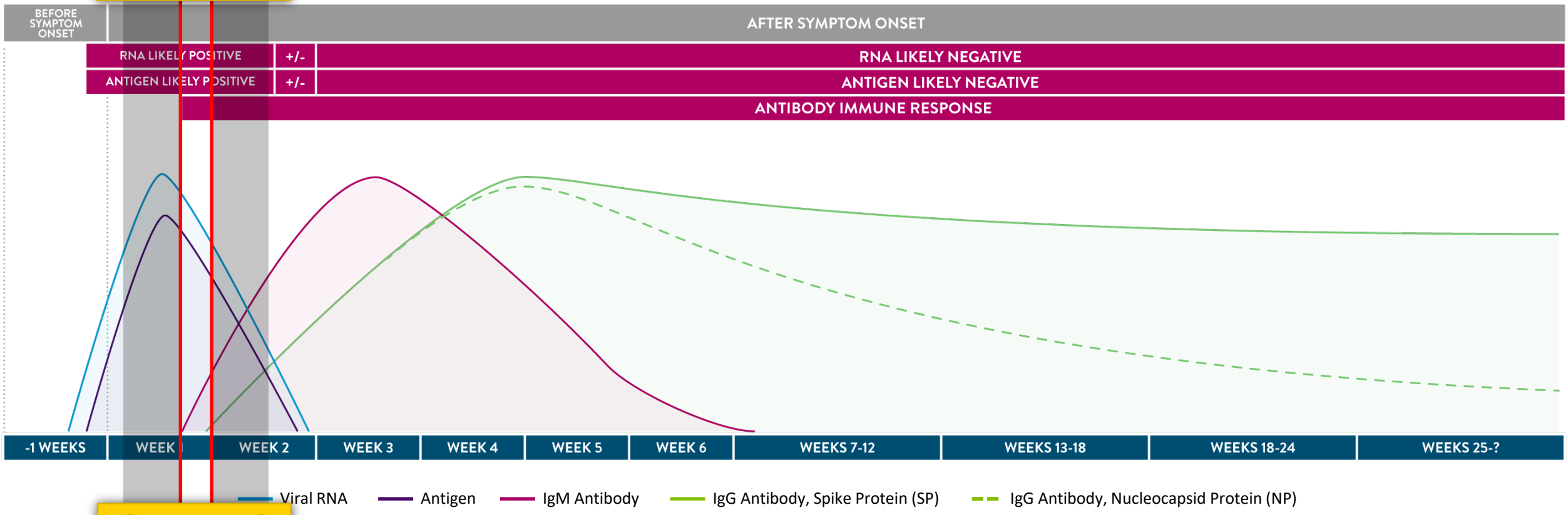


Individual has an active infection and has not developed an immune response.[1-11]

Following vaccination, viral load and antigen, if present, will be low and likely not detected.[14]

TEST RESULTS

- \+ RNA
- \+ Antigen
- – IgM
- – IgG (SP)
- – IgG (NP)

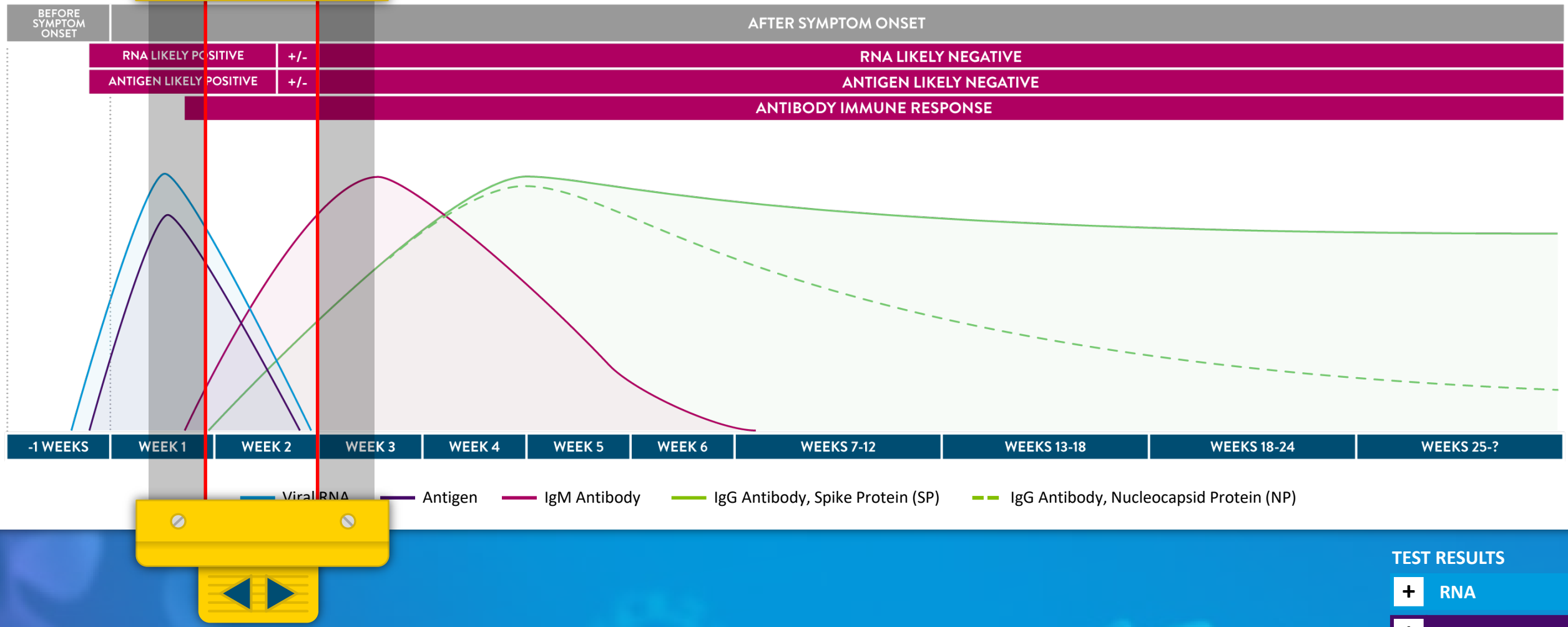


Patient is in the active phase of infection and has started to develop an immune response with antibody production.[1-11]

Following vaccination, viral load and antigen, if present, will be low and likely not detected.[14]

TEST RESULTS

- \+ RNA
- \+ Antigen
- \+ IgM
- − IgG (SP)
- − IgG (NP)

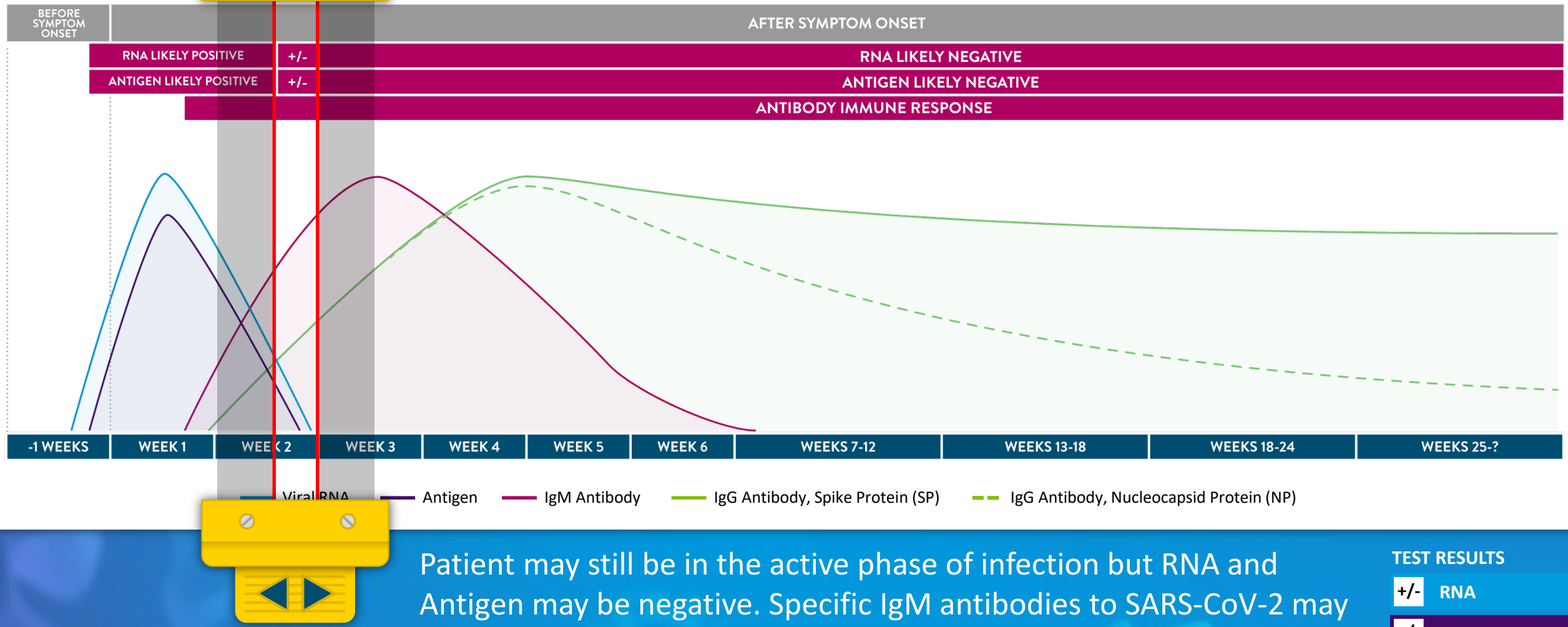


Patient is still in the active phase of the infection; immune response has progressed.[1-11]

Both IgM and IgG appear in vaccinated patients. IgG/IgM Nucleocapsid (NP) are only detected following attenuated whole virus vaccines and/or natural infections.[15, 16, 17]

TEST RESULTS

- \+ RNA
- \+ Antigen
- \+ IgM
- \+ IgG (SP)
- \+ IgG (NP)



Patient may still be in the active phase of infection but RNA and Antigen may be negative. Specific IgM antibodies to SARS-CoV-2 may be detectable in COVID-19 patients during the symptomatic phase of the disease after RNA is no longer detectable.[1-11]

Both IgM and IgG appear in vaccinated patients. IgG/IgM Nucleocapsid (NP) are only detected following attenuated whole virus vaccines and/or natural infections.[15, 16, 17]

TEST RESULTS

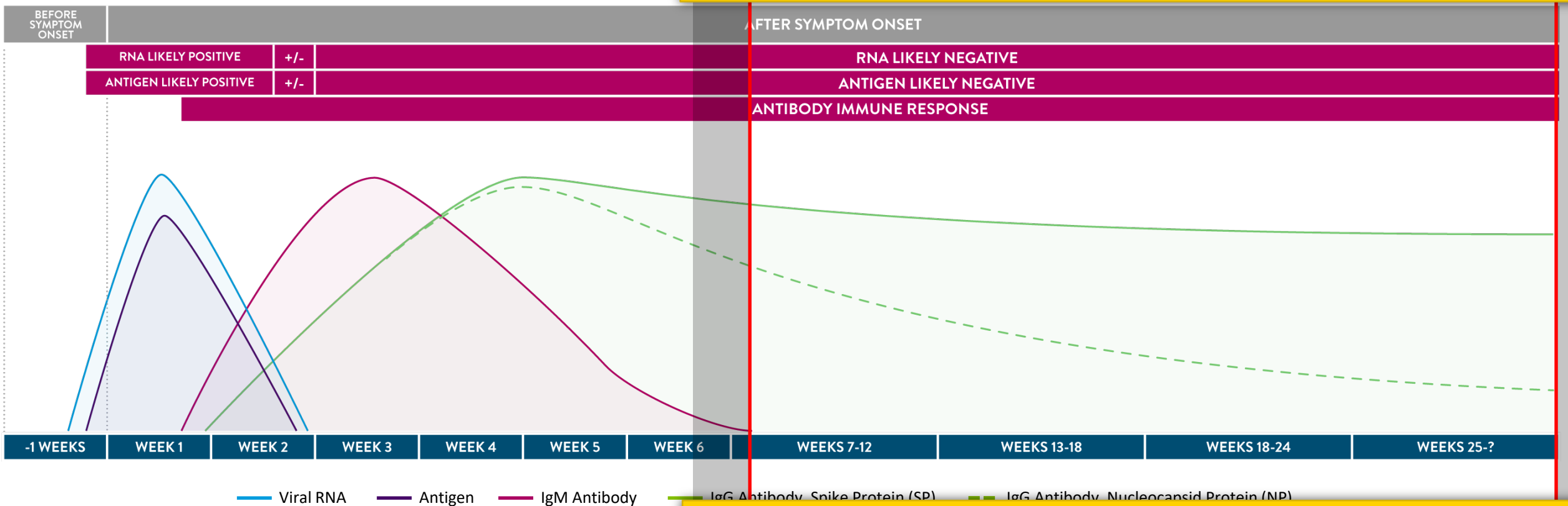
+/-	RNA
+/-	Antigen
+	IgM
+	IgG (SP)
+	IgG (NP)

Patient may be in the late or recovery stages of infection or RNA false negative.[1-11]

Both IgM and IgG appear in vaccinated patients. IgG/IgM Nucleocapsid (NP) are only detected following attenuated whole virus vaccines and/or natural infections.[15, 16, 17]

TEST RESULTS

- − RNA
- − Antigen
- + IgM
- + IgG (SP)
- + IgG (NP)



Antibodies may be detected following a natural infection or vaccination.[1-13]

IgG Spike (SP) is detected and IgG Nucleocapsid (NP) is not detected following a spike protein based vaccine. IgG Nucleocapsid (NP) and Spike (SP) would be positive following natural infection or attenuated whole virus vaccine.[15, 16, 17] IgG Nucleocapsid (NP) has a shorter half life than IgG Spike (SP).[18]

Antibody titers for convalescent plasma require high titer levels of neutralizing antibody. Titer levels can be defined independently and are measurable for IgG Nucleocapsid and Spike RBD assays.[19]

−	RNA
−	Antigen
−	IgM
+	IgG (SP)
+/-	IgG (NP)

SARS-CoV-2 Viral/Antibody Infection Interpretation[1-17]

TEST RESULTS					GENERAL INTERPRETATION**
RNA	Antigen	IgM	IgG(SP)	IgG(NP)	
+	–	–	–	–	Patient may be in the initial period of infection when antibodies are not yet produced or are under the limit of detection.
+	+	+	–	–	Patient is in the active phase of infection and has started to develop an immune response with antibody production.
–/+	–/+	+	–	–	Patient may be in the early stage of infection. RNA or antigen result may be undetectable due to timing or specimen collection technique.
+	–	+	+	+	Patient is likely in the latter stage of infection, particularly when PCR cycle counts are high which suggest residual RNA remnants.
–	–	+	+	+	Patient is likely in the late or recovery stages of a natural infection or vaccinated with an attenuated whole virus vaccine.
–	–	+	+	–	Antibodies detected following a natural infection or a spike protein-based vaccination.
–	–	–	+	+	Patient has recovered or has been infected in the past or vaccinated with an attenuated whole virus vaccine.
–	–	–	+	–	Antibodies detected following a natural infection or a spike protein-based vaccination.

**Test results must be considered with other clinical data available to the clinician.

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