MAYO CLINIC LABORATORIES

Test Definition: FHVGM

Hantavirus Antibody (IgG, IgM)

Overview

Method Name
Immunoassay

NY State Available
Yes

Specimen

Specimen Type
Serum

Specimen Required
Collection Container/Tube:
Preferred: Red top
Acceptable: Serum gel
Submission Container/Tube: Plastic vial
Specimen Volume: 0.5 mL
Collection Instructions:
1. Centrifuge and aliquot 0.5 mL of serum into a plastic vial.
2. Ship refrigerated.

Specimen Minimum Volume
0.50 mL

Reject Due To

Gross Hemolysis	Reject
Lipemia	Reject
Icterus	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	14 days	
	Ambient	7 days	
	Frozen	30 days	

Clinical & Interpretive

Clinical Information

This immunoassay is for the detection of IgM and IgG antibodies against Sin Nombre virus (SNV), a New World hantavirus species endemic in the United States. Laboratory testing can aid in the diagnosis of hantavirus pulmonary syndrome (HPS) in a patient with consistent signs and symptoms of infection.

Hantavirus pulmonary syndrome is caused primarily via inhalation of hantavirus from contaminated rodent urine, droppings, or saliva. Symptoms may include fatigue, fever, muscles aches, with rapid progression to coughing and shortness of breath, which may be severe and life-threatening. Testing may be considered in patients with HPS-compatible symptoms who may have had contact with rodents or infested areas.

In addition to New World hantaviruses, there are Old World hantaviruses (eg, Seoul, Hantaan, Dobrava, and Puumala) endemic to Asia and Europe that cause hemorrhagic fever with renal syndrome, a condition not typically seen in the United States. This assay may or may not detect antibodies against these Old World hantaviruses due to variable cross-reactivity with the target antigen. Negative antibody results may also occur early in infection, prior to seroconversion. Antibodies can be detected as early as the prodromal phase of infection (3-7 days). IgM results may be detected for months and IgG for up to several years after acute infection. Cross-reactivity with autoimmune conditions can occur. Therefore, the results of this test should be interpreted in the context of pertinent clinical and physical findings.

Reference Values

Negative

Clinical Reference

1. Centers for Disease Control and Prevention (CDC). About Hantavirus. CDC. Updated May 13, 2024. Accessed August 22, 2025. Available at www.cdc.gov/hantavirus/about/index.html
2. Centers for Disease Control and Prevention (CDC). Clinician Brief: Hantavirus Syndrome (HPS). CDC. Updated May 23, 2024. Accessed August 22, 2025. Available at www.cdc.gov/hantavirus/hcp/clinical-overview/hps.html
3. Klena JD, Chiang CF, Whitmer SM, Wang YF, Shieh WJ. Hantaviruses. In: ClinMicroNow. doi:10.1002/9781683670438.mcm0099
4. Vial PA, Ferres M, Vial C, et al. Hantavirus in humans: a review of clinical aspects and management. Lancet Infect Dis. 2023;23(9):e371-e382. doi:10.1016/S1473-3099(23)00128-7

Performance

PDF Report

No

Day(s) Performed

Wednesday

Report Available

3 to 14 days

Performing Laboratory Location

Quest Diagnostics

Fees & Codes

Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

Test Classification

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

CPT Code Information

86790 x 2

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FHVGM	Hantavirus Antibody (IgG, IgM)	Not Provided

Result ID	Test Result Name	Result LOINC® Value
Z4933	Hantavirus Ab (IgG)	26620-5
Z4934	Hantavirus Ab (IgM)	32131-5