

Adenovirus, IgG OR IgM Antibody – [Serum] Analysis

Objective

The objective of this test is to detect IgG or IgM antibodies to adenovirus in serum, aiding in the diagnosis of current or past adenoviral infections and evaluating immune status.

Materials and Methods

Materials:

- Serum sample from patient
- Enzyme-linked immunosorbent assay (ELISA) kits specific for adenovirus IgG and IgM
- Microplate reader and washing system
- Standard laboratory equipment (pipettes, microtubes)

Methods:

1. Sample Collection: Collect venous blood and separate serum via centrifugation.
2. Antibody Detection: Perform ELISA to detect adenovirus-specific IgG or IgM antibodies.
3. IgM Detection: Indicates recent or acute infection.
4. IgG Detection: Indicates past exposure or immunity.
5. Quality Control: Use positive and negative controls provided in the kit to validate results.
6. Interpretation: Analyze antibody levels against assay cut-offs and clinical presentation.

Results

- IgM Positive: Suggests acute or recent adenovirus infection
- IgG Positive: Indicates past exposure or immunity to adenovirus
- Both Negative: No detectable antibodies, possible susceptibility to infection

Conclusion

Adenovirus antibody testing (IgG and IgM) provides valuable insights into the timing and status of infection. It is used in clinical diagnosis, outbreak investigations, and immune status assessments.