

Human Anti-Adenovirus Hexon Protein Antibody controls

<input type="checkbox"/> 950-110-01N	Human Anti-Adenovirus Hexon Protein (hxn) IgG Negative Serum	1 ml
<input type="checkbox"/> 950-110-02P	Human Anti-Adenovirus Hexon Protein (hxn) IgG Positive Serum	1 ml

The adenovirus is an ubiquitous pathogen of humans and animals. Adenoviruses are characterized by location inside the cell nucleus, common complement-fixing antigens and marked stability to environmental effects. Adenoviruses are endemic in all populations throughout the year. The infection is spread both through the aerial-droplet route and the routes characteristic for intestinal infections. The incubation period is between five and seven days. Adenoviruses mainly infest respiratory and intestinal mucosa, but also the cornea. They are accumulated in the epithelial cells and regional lymph nodes. Adenoviruses cause the widest variety of illnesses of the known respiratory viruses. The adenovirus infection is the most frequently caused viral disease of the respiratory tract among preschool children (types 1 - 5 and 7).

Acute diseases of the upper respiratory tract occur predominantly. Pneumonia is the most severe form of adenoviral infection occurring mostly in infants below the age of one. Adenoviruses also cause outbreaks of swimming-pool associated pharyngoconjunctival fever in the summer and epidemics of kerato-conjunctivitis of both children and adults. The intestinal form of adenoviral infection occurs mostly in children below the age of one. An acute adenoviral infection can be detected by virus isolation and/or serology. The serologic tests are particularly important because they document actual infection in the patient and can be applied to large-scale epidemiologic investigations. The CF and ELISA tests measure predominantly the antibodies directed against the group-specific determinants on the hexon component. The recommended tests for measuring type specific antibodies are hemagglutinin inhibition and serum neutralization. The type-specific antigenic determinants of adenoviruses are located at the fibers on the capsid. Because of the ubiquity of the adenoviruses and numerous cross-reactions between related serotypes, seroconversion involving a fourfold or greater rise in antibody infection is necessary to document infection. IgG is the predominant antibody class measured in the serologic tests.

Adenovirus IgA, IgG or IgM ELISA kits are intended for the detection of IgA, IgG or IgM antibody Adenovirus in human serum or plasma. Additional ELISA kits to detect the Adenovirus antibody in mouse and other species are also available for research.

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Source of Antibodies

Human serum containing antibodies to adenovirus hexon protein as tested by human anti-adenovirus hexon protein IgG ELISA kit #950-110-AHG. The positive serum tested positive with A450 values of >1.0. The negative serum produced A450 values of <0.2. Control sera are provided in a stabilizing buffer and 0.05% azide. Store liquid at 4oC for up to 3 months or frozen in suitable size aliquots.

Recommended as positive and negative controls for human anti-

adenovirus hexon protein IgG by ELISA (#950-110-AHG). **Use undiluted in 50-100 ul per well** or dilute as necessary depending upon the sensitivity of the detection. The controls may register different values if tested in a kit from a different manufacturer.

General References: Hierholzer JC, Tannock GA. Adenoviruses. In: Rose RR, Friedman H, Fahey JL. Manual of Clinical Laboratory Immunology (third edition). American Society for Microbiology, Washington D.C. 527 (1986).

*This product is for In vitro research use only.

Related material available from ADI

Catalog#	ProdDescription
950-100-AHA	Human Anti-Adenovirus (hAd5 hxn) IgA ELISA kit
950-110-01N	Human Anti-Adenovirus Hexon Protein (hxn) IgG Negative Serum
950-110-02P	Human Anti-Adenovirus Hexon Protein (hxn) IgG Positive Serum
950-110-AHG	Human Anti-Adenovirus (hAd5 hxn) IgG ELISA kit
950-120-AHM	Human Anti-Adenovirus (hAd5 hxn) IgM ELISA kit
950-130-01N	Mouse Anti-Adenovirus Hexon Protein (MADV-hxn) IgG Negative Serum
950-130-02P	Mouse Anti-Adenovirus Hexon Protein (MADV-hxn) IgG Positive Serum
950-130-AMG	Mouse Anti-Human Adenovirus (hAd5 hxn) IgG ELISA
950-140-AMM	Mouse Anti-Human Adenovirus (hAd5 hxn) IgM ELISA
950-150-01N	Monkey (Rhesus) Anti-Adenovirus Hexon Protein (hxn) IgG Negative Serum
950-150-02N	Chimpanzee Anti-Adenovirus Hexon Protein (hxn) IgG Negative Serum
950-150-02P	Monkey (Rhesus) Anti-Adenovirus Hexon Protein (hxn) IgG Positive Serum
950-150-03P	Chimpanzee Anti-Adenovirus Hexon Protein (hxn) IgG Positive Serum
950-150-04N	Monkey (Cynomolgous) Anti-Adenovirus Hexon Protein (hxn) IgG Negative Serum
950-150-05N	Baboon Anti-Adenovirus Hexon Protein (hxn) IgG Negative Serum
950-150-05P	Monkey (Cynomolgous) Anti-Adenovirus Hexon Protein (hxn) IgG Positive Serum
950-150-06P	Baboon Anti-Adenovirus Hexon Protein (hxn) IgG Positive Serum
950-150-AMG	Monkey Anti-Human Adenovirus (hAd5 hxn) IgG ELISA kit
950-155-AMM	Monkey Anti-Adenovirus (hAd5 hxn) IgM ELISA kit
950-160-07N	Goat Anti-Adenovirus Hexon Protein (hxn) IgG Negative Serum
950-160-08P	Goat Anti-Adenovirus Hexon Protein (hxn) IgG Positive Serum
950-160-09N	Rabbit Anti-Adenovirus Hexon Protein (hxn) IgG Negative Serum
950-160-10P	Rabbit Anti-Adenovirus Hexon Protein (hxn) IgG Positive Serum

950-110-01N-Human-Adenovirus-IgG-Positive-Sera
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