ALPHA DIAGNOSTIC INTERNATIONAL

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Product Specification Sheet

Adenovirus Type 2 Hexon Antibodies

Cat. ADV11-S	Goat Anti-Adenovirus type 2 hexon antiserum	**SIZE**: 100 ul
Cat. ADV11-BTN	Goat Anti-Adenovirus type 2 hexon antiserum	**SIZE**: 0.5 ml
Cat. ADV11-FITC	Goat Anti-Adenovirus type 2 hexon antiserum	**SIZE**: 0.5 ml
Cat. ADV11-HRP	Goat Anti-Adenovirus type 2 hexon antiserum	**SIZE**: 0.5 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 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. The hexon is the major capsid protein of the adenovirion and is composed of three identical large polypeptide chains, each containing approximately 1000 residues, which require about 8% of the coding capacity of the viral genome. The viral shell has a total of 240 such capsomers which assemble in groups of nine to constitute the major part of the 20 triangular surfaces of the adenovirus icosahedron. The major structural features are shared by adenovirus of all serotypes, but the hexon polypeptide, as well as other capsid proteins, differ in size and immunological properties between serotypes. Different forms of hexon from one serotype have also been described.

Source of Antigen and Antibodies

Antigen	Hexon from Adenovirus, type 2
Antibody host/type	Goat, polyclonal purified IgG (**# ADV11-S**) or Coupled to FITC **(#ADV11-FITC**), Biotin (#ADV11-BTN) or HRP (#ADV11-HRP).
Secondary Ab	**Rabbit Anti-goat IgG-HRP conjugate** Cat # 30220 (AP, biotin, FITC conjugates also available)
Negative Control Ab	# 20011-1, Goat (non-immune) IgG, purified, suitable for ELISA, Western, IHC as –ve control

Form & Storage of Antibodies/Peptide Control

Purified pure IgG

100 ul solution lyophilized powder

Supplied in **Buffer**: PBS and 0.05% azide

Dissolve powder in 100 ul water.

Cat# ADV11-BTN, Biotin-conjugate

Purified antibody was coupled to Biotin using Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** (from 0.5 ml soln) or **liquid** form (0.5 ml). Reconstitute powder in PBS in 0.5 ml to prepare stock solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA, 1:2K-1:10K for western.

Cat# ADV11-FITC, FITC-conjugate

Purified antibody was coupled to FITC at F/P ratio ~3:7. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** (from 0.5 ml soln) or **liquid** form (0.5 ml). Reconstitute powder in PBS in 0.5 ml to prepare stock solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:200-1:2000 for immunofluorescence.
Absorption Wavelength: 495 nm
Emission Wavelength: 528 nm

Cat# ADV11-HRP conjugate

Purified antibody was coupled to HRP (RZ>3.0) using periodate method. The molar enzyme to protein (E/P) ratio = 4.0. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** (from 0.5 ml soln) or **liquid** form (0.5 ml). Reconstitute powder in PBS in 0.5 ml to prepare stock solution. Store at 4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1,000-1:10,000 ELISA, 1:1K-1:5K for western, and 1:200-1:1000 (IHC).

Stability: 6-12 months at –20oC or below.
Shipping: 4oC for solutions and room temp for powder

Recommended Usage

Western Blotting (1:250-1:1000) using Chemiluminescence technique.

ELISA (1:10K-1:100K; using 50-100 ng of control peptide/well).

Histochemistry & Immunofluorescence. We recommend the use of affinity purified antibody at 2-10 ug/ml in formaldehyde fixed, paraffin-embedded tissues.

Specificity & Cross-reactivity

Antibodies ract with types 1, 2, 3, 5, 6, 7a, 8, 31, 40 & 41. Others not tested. Does not cross-react with Para 1-3, Infl. A & B , or RSV

General References: Philipson L (1979) Adv. Virus. Res. 25, 357-405; Pettersson U (1971) virology 84, 123-136; Bulanger P (1978) Virology 84, 456-468; Harrison SC (2010) Science 329, 1026-1027;
*This product is for in vitro research use only.

Related material available from ADI

950-100-AHA	Human Anti-Adenovirus IgA ELISA kit
950-110-AHG	Human Anti-Adenovirus IgG ELISA kit
950-120-AHM	Human Anti-Adenovirus IgM ELISA kit
950-130-AMG	Mouse Anti-Adenovirus IgG ELISA kit
950-140-AMM	Mouse Anti-Adenovirus IgM ELISA kit
ADV12-M	Monoclonal Anti-Adenovirus (many istoypes)
ADV17-M	Monoclonal Anti-Adenovirus type (pan, reacts with all human serotypes) IgG, aff pure

ADV11-A

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