

Product Specification Sheet

**Adenovirus Type 2 Hexon Antibodies**

<b>Cat.</b> ADV11-S	Goat Anti-Adenovirus type 2 hexon antiserum	<b>SIZE:</b> 100 ul
<b>Cat.</b> ADV11-BTN	Goat Anti-Adenovirus type 2 hexon antiserum	<b>SIZE:</b> 0.5 ml
<b>Cat.</b> ADV11-FITC	Goat Anti-Adenovirus type 2 hexon antiserum	<b>SIZE:</b> 0.5 ml
<b>Cat.</b> ADV11-HRP	Goat Anti-Adenovirus type 2 hexon antiserum	<b>SIZE:</b> 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**

<b>Antigen</b>	Hexon from Adenovirus, type 2
<b>Antibody host/type</b>	Goat, polyclonal purified IgG (# <b>ADV11-S</b> ) or Coupled to FITC (# <b>ADV11-FITC</b> ), Biotin (# <b>ADV11-BTN</b> ) or HRP (# <b>ADV11-HRP</b> ).
<b>Secondary Ab</b>	<b>Rabbit Anti-goat IgG-HRP conjugate</b> Cat # 30220 (AP, biotin, FITC conjugates also available)
<b>Negative Control Ab</b>	# 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 react 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 istotypes)
ADV17-M	Monoclonal Anti-Adenovirus type (pan, reacts with all human serotypes) IgG, aff pure
ADV11-A	