

## Antibody Datasheet

<b>Product Name:</b>	Mouse anti Adenovirus hexon protein
<b>Clone number:</b>	A15
<b>Isotype:</b>	Mouse IgG
<b>Product code:</b>	MAB12137-100
<b>Batch Number:</b>	
<b>Amount:</b>	0.1mg
<b>Concentration:</b>	1 mg/ml
<b>Buffer:</b>	Phosphate Buffered Saline pH7.4
<b>Preservative:</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Purification:</b>	The antibody was purified by affinity chromatography on protein A
<b>Specificity:</b>	<p>This antibody is specific for the hexon protein of Adenovirus. The antibody has been shown to recognise adenovirus from all strains that have been tested, including adenovirus 2, 3, 4, 5, 15, 31, 40 and 41</p> <p>The antibody does not cross react with <i>Astrovirus</i>, <i>Campylobacter spp.</i>, <i>Clostridium difficile</i>, <i>Cryptosporidium</i>, <i>Enterovirus</i>, <i>Escherichia coli</i>, <i>Giardia</i>, <i>Helicobacter pylori</i>, <i>HAV</i>, <i>Influenza type A</i>, <i>Influenza type B</i>, <i>Listeria monocytogenes</i>, <i>Norovirus</i>, <i>Respiratory syncytial virus</i>, <i>Rotavirus</i>, <i>Salmonella spp.</i>, <i>Shigella spp.</i>, <i>Yersinia enterocolitica</i>.</p>
<b>Applications:</b>	ELISA



**Antigen background:** Human Adenoviruses (HAdV) are non-enveloped, non-segmented double stranded DNA viruses, which belong to the genus *Mastadenovirus* within the *Adenoviridae* family of viruses. Human Adenoviruses have been further classified into seven species groups A- G. Since the discovery of adenovirus in human adenoid tissue in 1953, by Wallace Rowe and colleagues, more than 50 serotypes of HAdV and 70 genotypes have been identified ([Cook, J](#)). Hexon protein is the largest and most abundant structural protein in the adenovirus capsid.

Human adenoviruses are globally widespread and ubiquitous in the environment. HAdV can persist in the environment and are resistant to most household disinfectants. Transmission of HAdV occurs primarily via the faecal-oral route, with contaminated water and food being the primary source of infection. HAdV may also be spread through contact with contaminated surfaces and through aerosol droplets from an infected individual.

Human adenoviruses commonly cause respiratory disease but some HAdV serotypes cause gastrointestinal disease, conjunctivitis and cystitis. The clinical disease caused by HAdV infection varies depending on the HAdV type. In immunocompromised patients, HAdV infection can cause severe clinical symptoms that may lead to respiratory failure, neurological disease and death ([CDC](#)).

**References:** Cook J, Radke J. (2017). Mechanisms of pathogenesis of emerging adenoviruses. F1000Res. Jan 30;6:90. PMID: 28184296

Centres for Disease Control and Prevention: Adenoviruses

**Storage:** Store at +4°C for up to three months, or at -20°C for longer.  
The Antibody is shipped at ambient temperature.  
Avoid repeated freeze/thaw cycles.

