Datasheet: MCA489

Description:	MOUSE ANTI ADENOVIRUS
Specificity:	ADENOVIRUS
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	B025 (AD51)
Isotype:	IgG2a
Quantity:	1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1)**This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.**

Target Species	Viral
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Adenovirus type 3.
RRID	AB_321166
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the JK.Ag8.653 mouse myeloma cell line.
Specificity	**Mouse anti adenovirus antibody, clone B025 (AD51)** recognizes all human adenoviruses serotypes. The most common infections caused by adenovirus are respiratory tract infections but some infections may also lead to conjunctivitis, skin-rash, diarrhea and bladder infections. Infant and children are most commonly affected by adenoviruses. Adenoviruses are icosahedral non-enveloped linear double-stranded DNA viruses. There are at least 51 serotypes, which are categorized into 6 species (A-F) based on molecular criteria. The virus capsid is composed of three different proteins: 12 fiber attachment proteins associated with 12 penton base proteins and 240 hexon proteins, which form the main capsid component (Ebner *et al.* 2005). Mouse anti adenovirus antibody, clone B025 (AD51) reacts with the adenovirus specific hexon polypeptide. Due to their infectivity to both quiescent and proliferating cells, adenoviruses have also been used as vectors in vaccination and in gene therapy (Thomas *et al.* 2002 and Abad *et al.* 2002).
Purity	>90% IgG content by SDS page
References	1. Maddox, A. *et al.* (1992) Adenovirus infection of the large bowel in HIV positive patients. J Clin Pathol. 45 (8): 684-8. 2. Blanshard, C. and Gazzard, B.G. (1995) Natural history and prognosis of diarrhoea of unknown cause in patients with acquired immunodeficiency syndrome (AIDS). Gut. 36: 283-6. 3. Blanshard, C. *et al.* (1996) Investigation of chronic diarrhoea in acquired immunodeficiency syndrome. A prospective study of 155 patients. Gut. 39: 824-32. 4. Thomas, P.D. *et al.* (2001) Enteric viral infections as a cause of diarrhoea in the acquired immunodeficiency syndrome. HIV Med. 1: 19-24. 5. Audu, R. *et al.* (2002) Isolation and identification of adenovirus recovered from the stool of children with diarrhoea in Lagos, Nigeria. Afr J Health Sci. 9: 105-11. 6. Abad, L.W. *et al.* (2002) Development of a biosensor-based method for detection and isotyping of antibody responses to adenoviral-based gene therapy vectors. Anal Biochem. 2002 Nov 1;310(1):107-13. 7. Thomas, C.E. *et al.* (2002) Adenovirus binding to the coxsackievirus and adenovirus receptor or integrins is not required to elicit brain inflammation but is necessary to

transduce specific neural cell types. J Virol. 76: 3452-60.
8. Morfin, F. *et al.* (2005) *In vitro* susceptibility of adenovirus to antiviral drugs is species-dependent. Antivir Ther. 10: 225-9.
9. Griesche, N. *et al.* (2008) Growth characteristics of human adenoviruses on porcine cell lines. Virology. 373: 400-10.
10. Gularte, S.J. *et al.* (2021) Functionalized Surfaces as a Tool for Virus Sensing: A Demonstration of Human mastadenovirus Detection in Environmental Waters Chemosensors. 9 (2): 19.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA489 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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